

FIG. 1

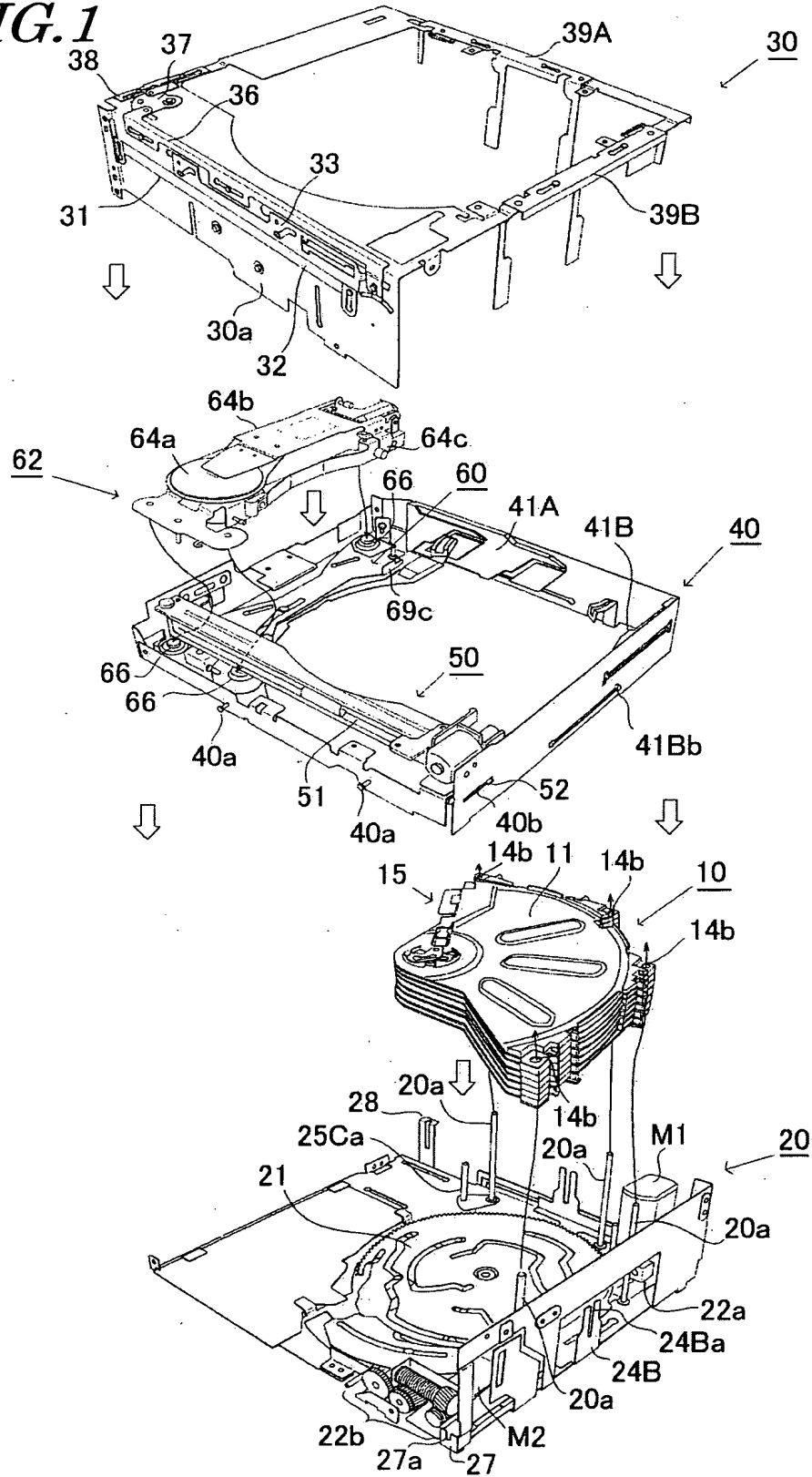


FIG. 3

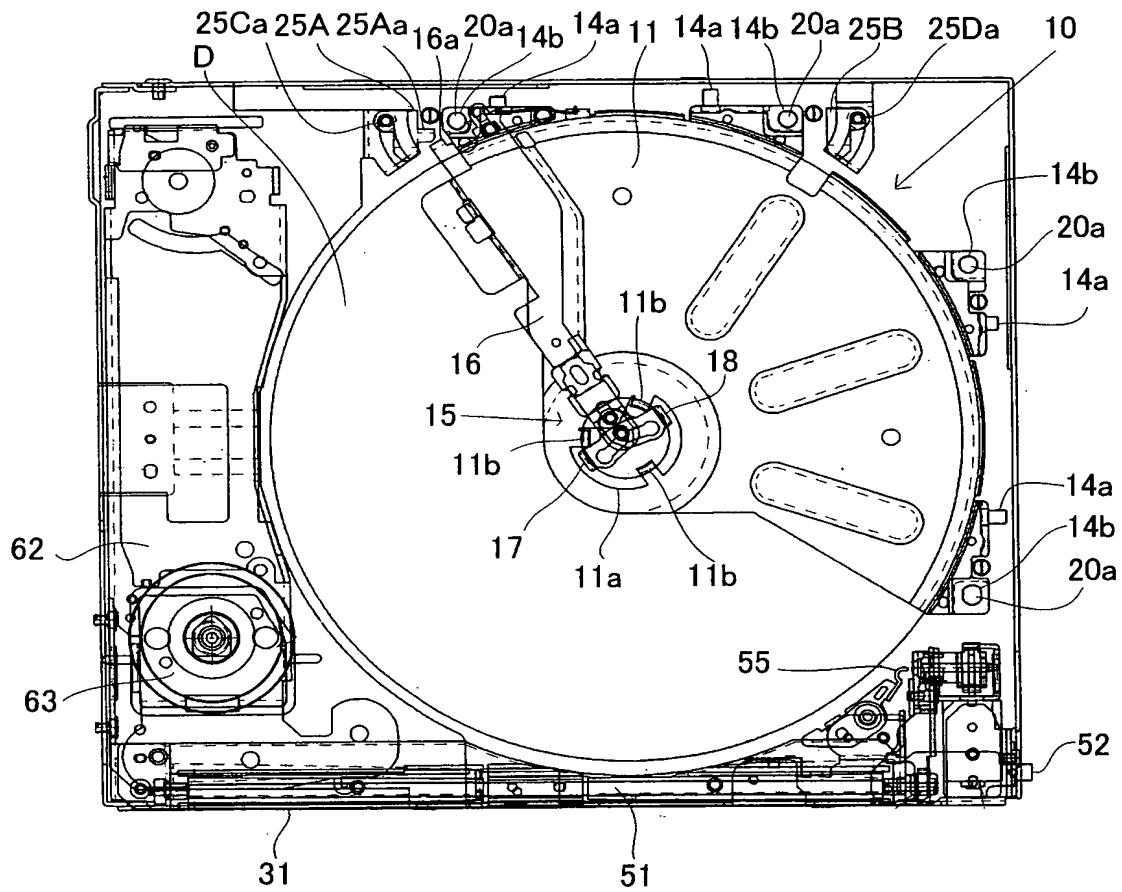


FIG. 4

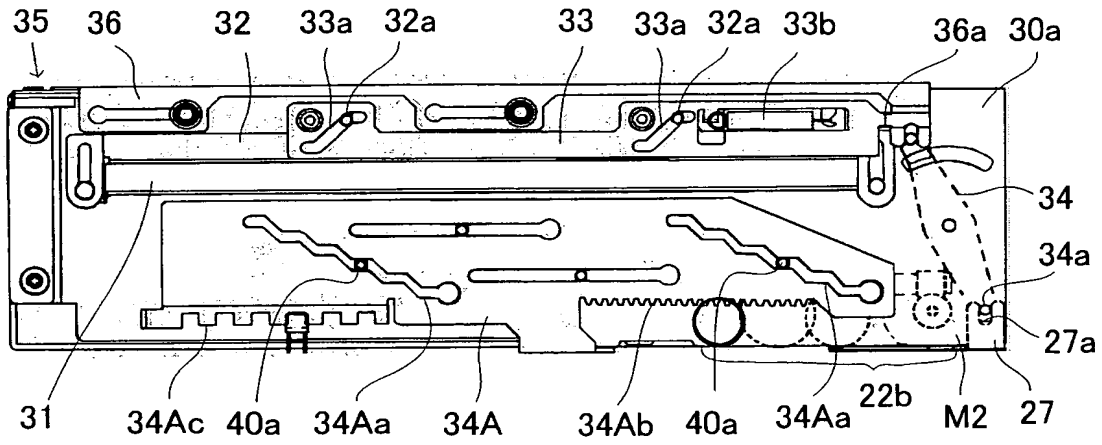


FIG. 5

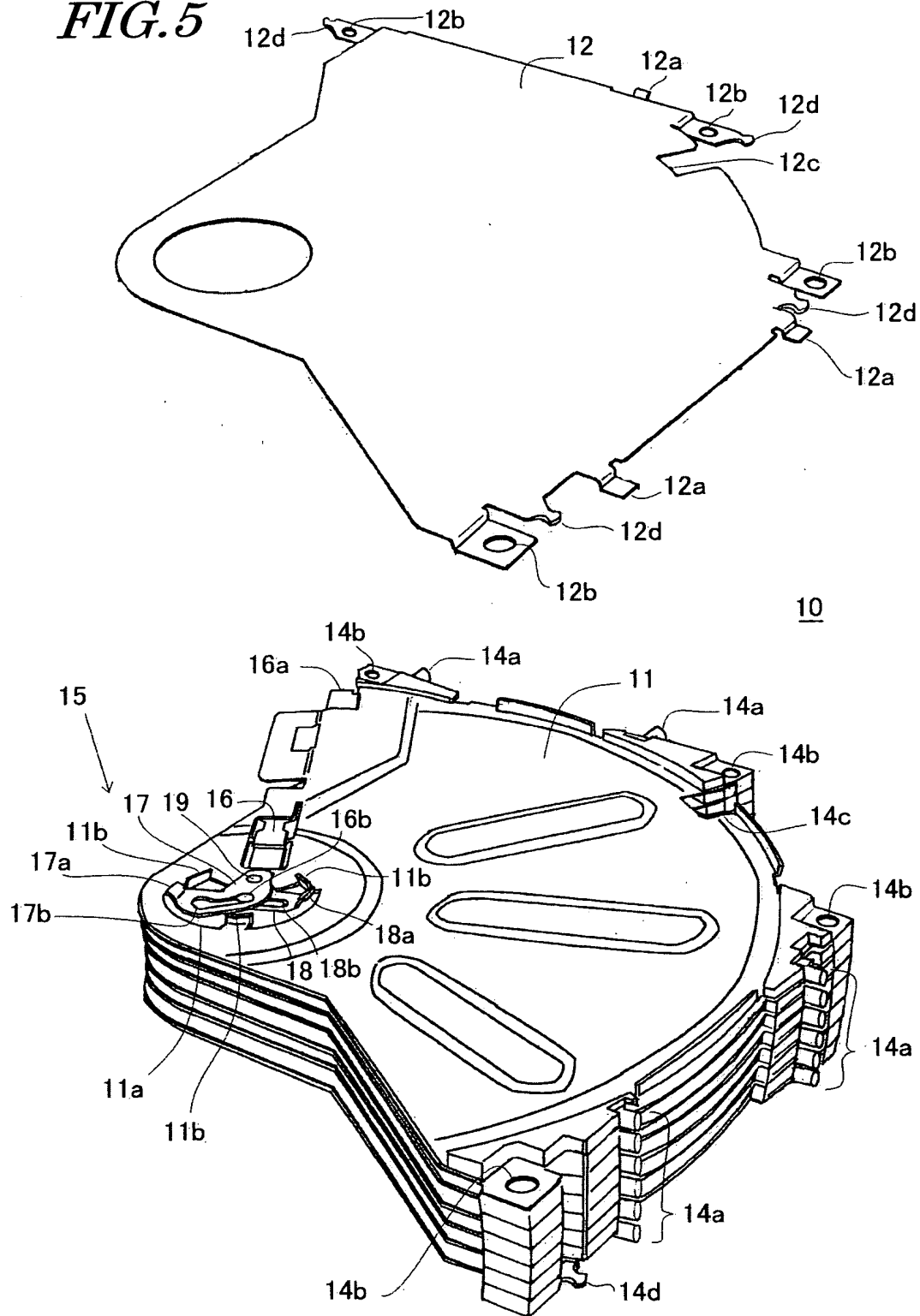


FIG. 6

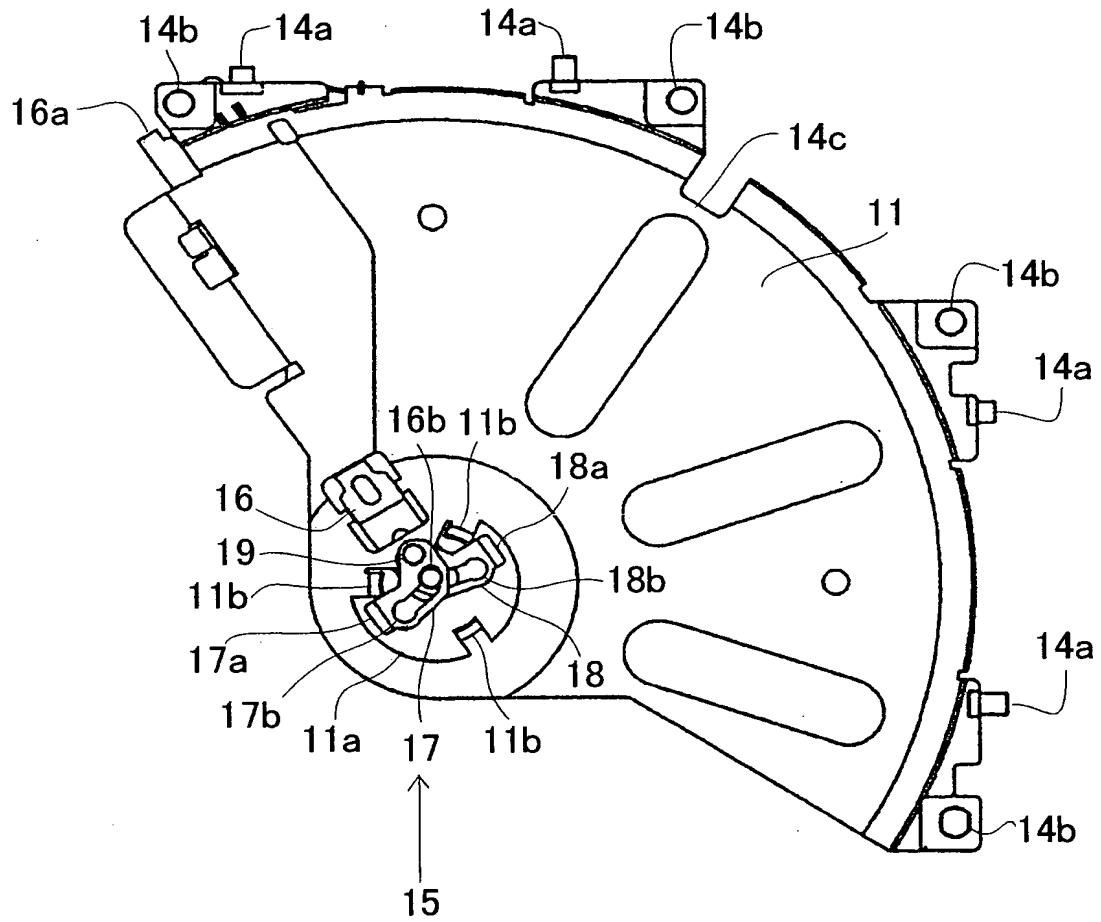


FIG. 7

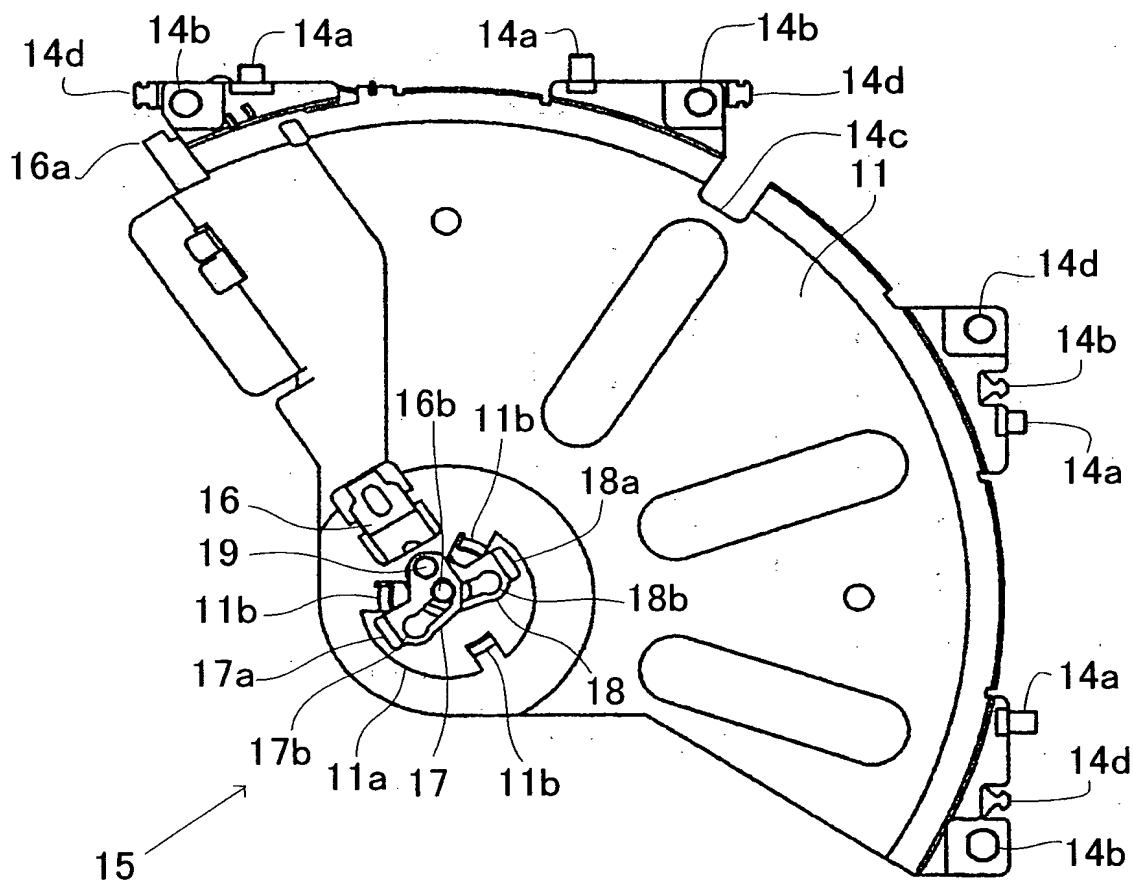


FIG. 8

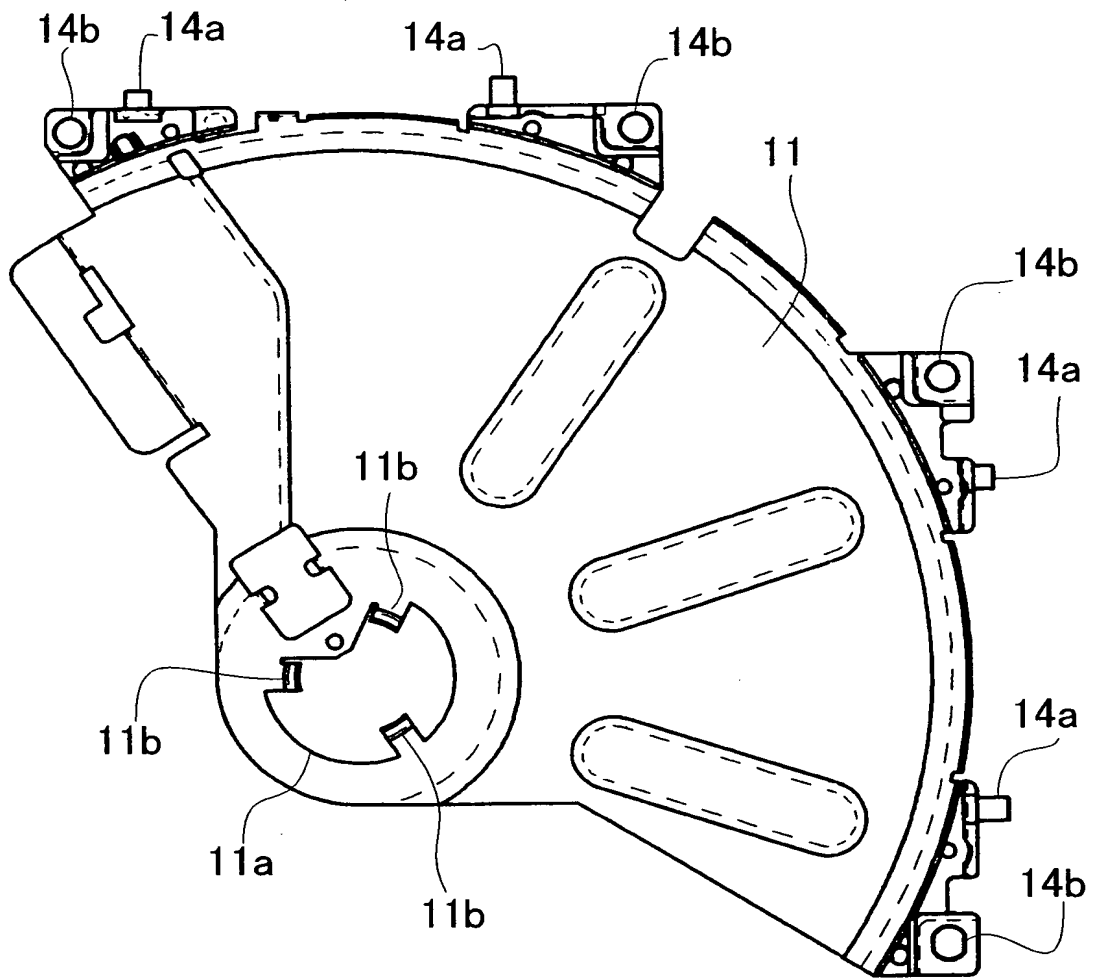


FIG. 9

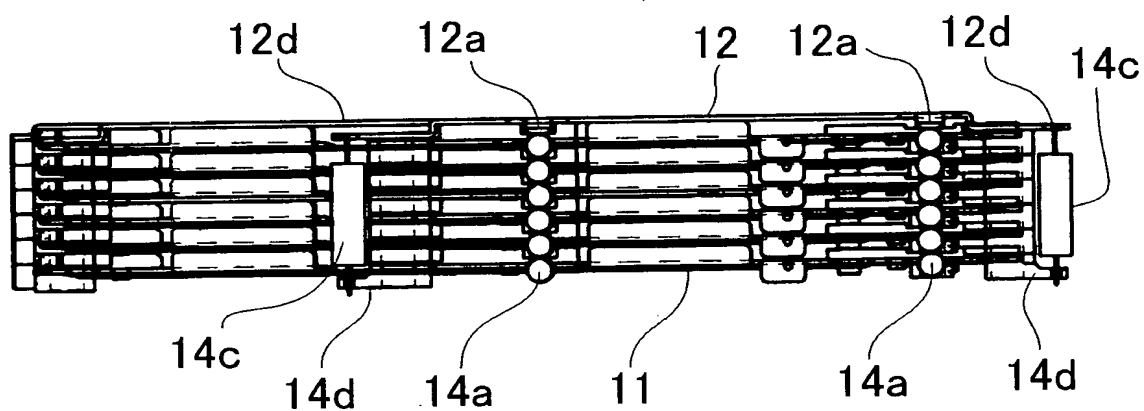


FIG. 10

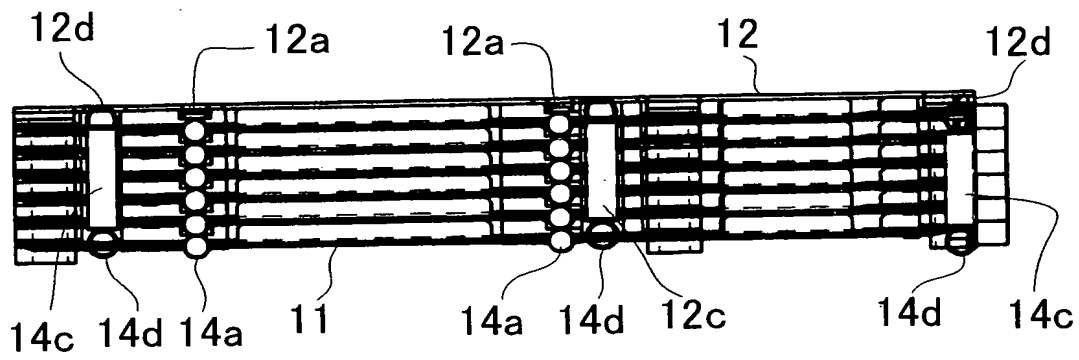


FIG. 11

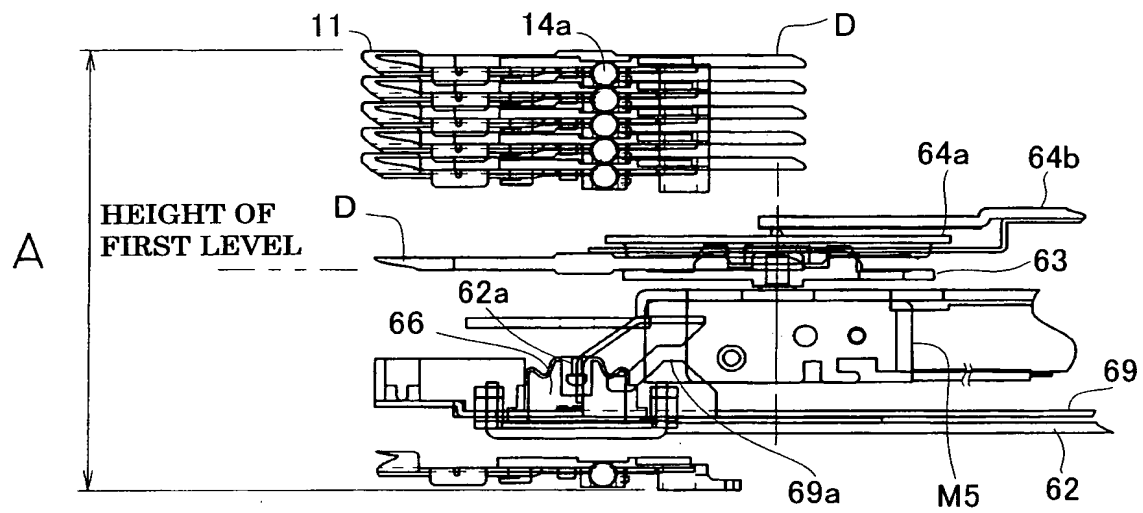


FIG. 12

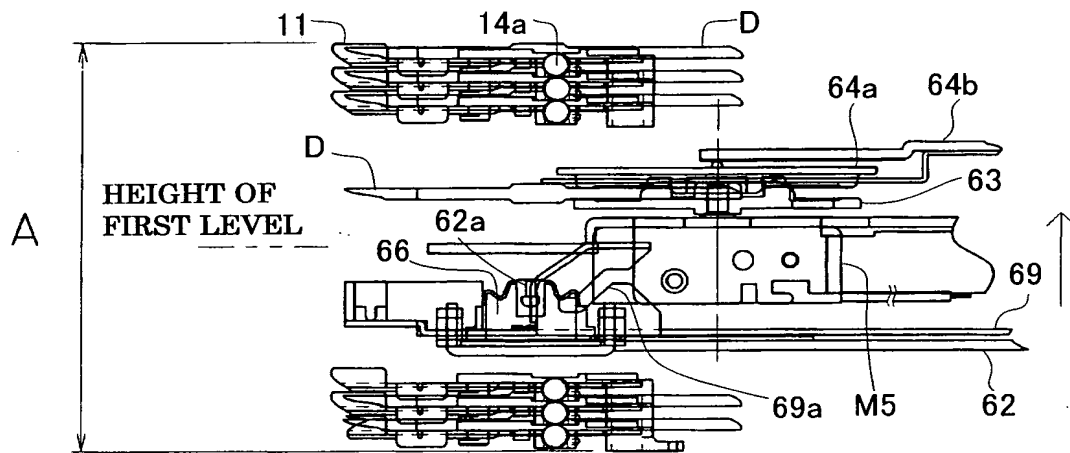


FIG. 13

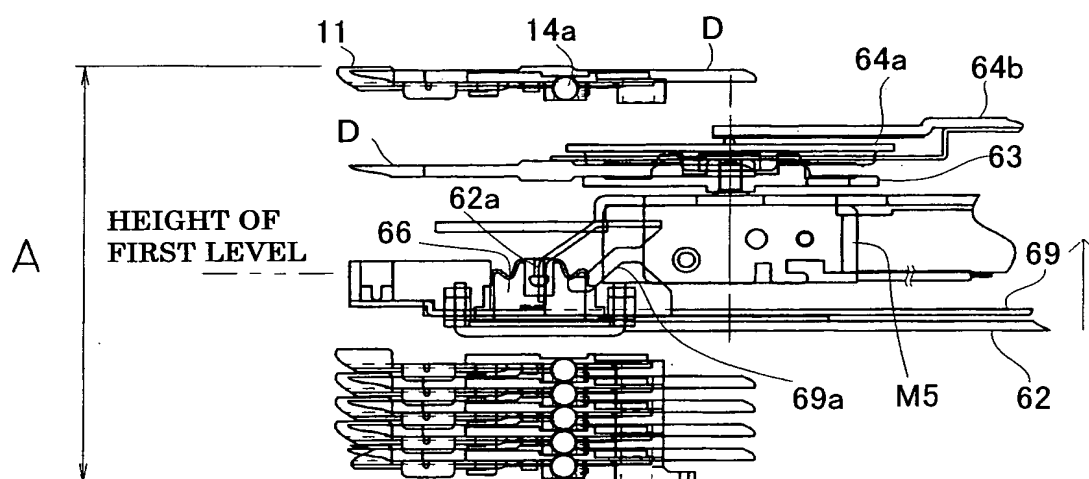
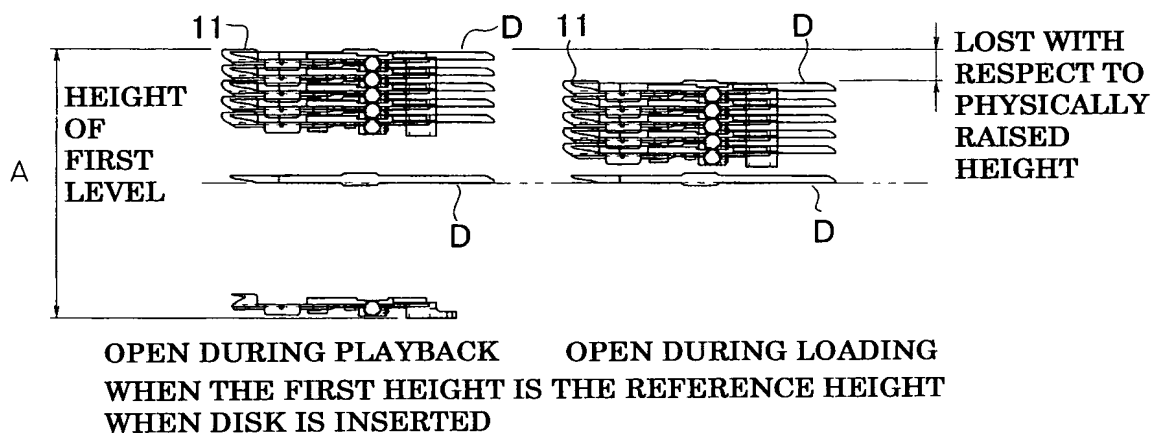


FIG. 14



The diagram shows two cross-sectional views of a disk assembly. The left view is labeled "OPEN DURING PLAYBACK" and the right view is labeled "OPEN DURING LOADING". Both views show a stack of disks with a central hub. A dimension line labeled "A" indicates the total height of the disk stack. A horizontal dashed line represents the "HEIGHT OF FIRST LEVEL". Another horizontal dashed line represents the "HEIGHT OF SIXTH LEVEL". The distance between these two levels is labeled "D". The text "WHEN THE SIXTH HEIGHT IS THE REFERENCE HEIGHT WHEN DISK IS INSERTED" is written below the diagram.

DIMENSION AT WHICH DISK MOVEMENT AMOUNT MUST BE INCREASED

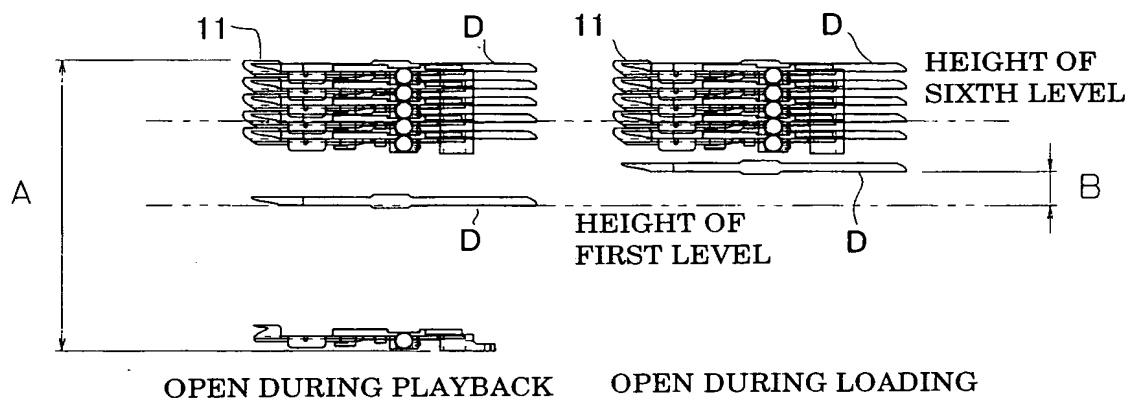
HEIGHT OF SIXTH LEVEL

HEIGHT OF FIRST LEVEL

OPEN DURING PLAYBACK OPEN DURING LOADING

WHEN THE SIXTH HEIGHT IS THE REFERENCE HEIGHT WHEN DISK IS INSERTED

FIG. 16



WHEN A HEIGHT BETWEEN THE FIRST HEIGHT AND THE SIXTH
HEIGHT IS THE REFERENCE HEIGHT WHEN DISK IS INSERTED

FIG. 17

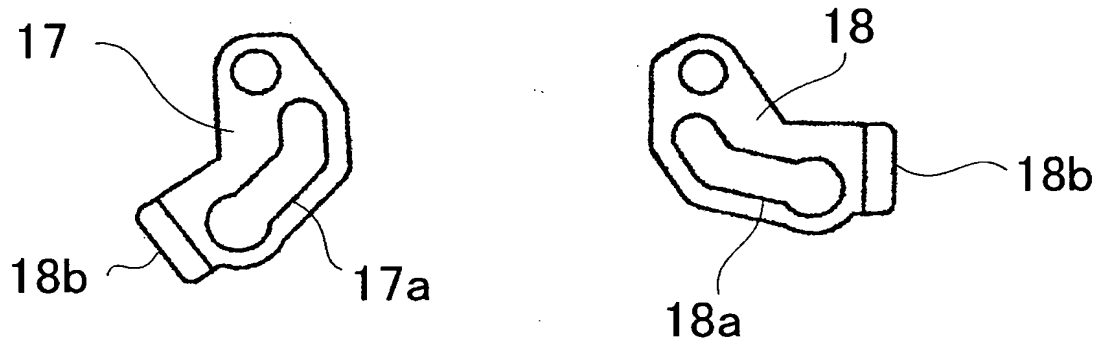
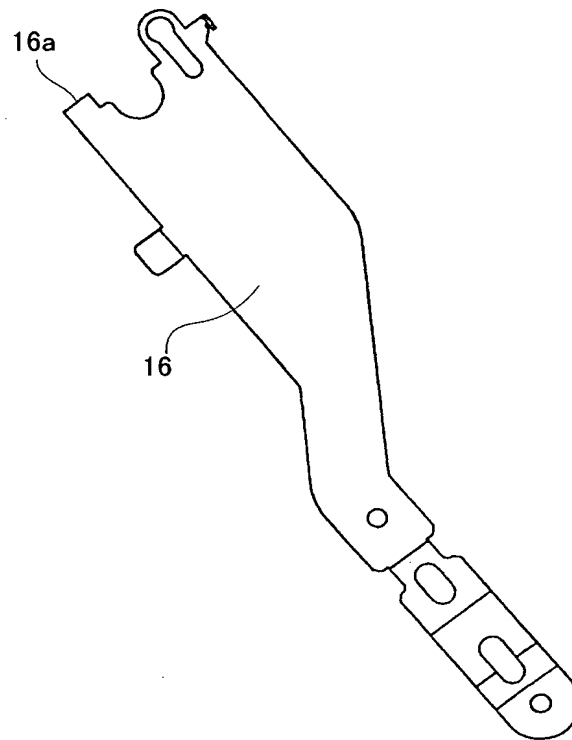


FIG. 18



[illegible]

FIG. 20

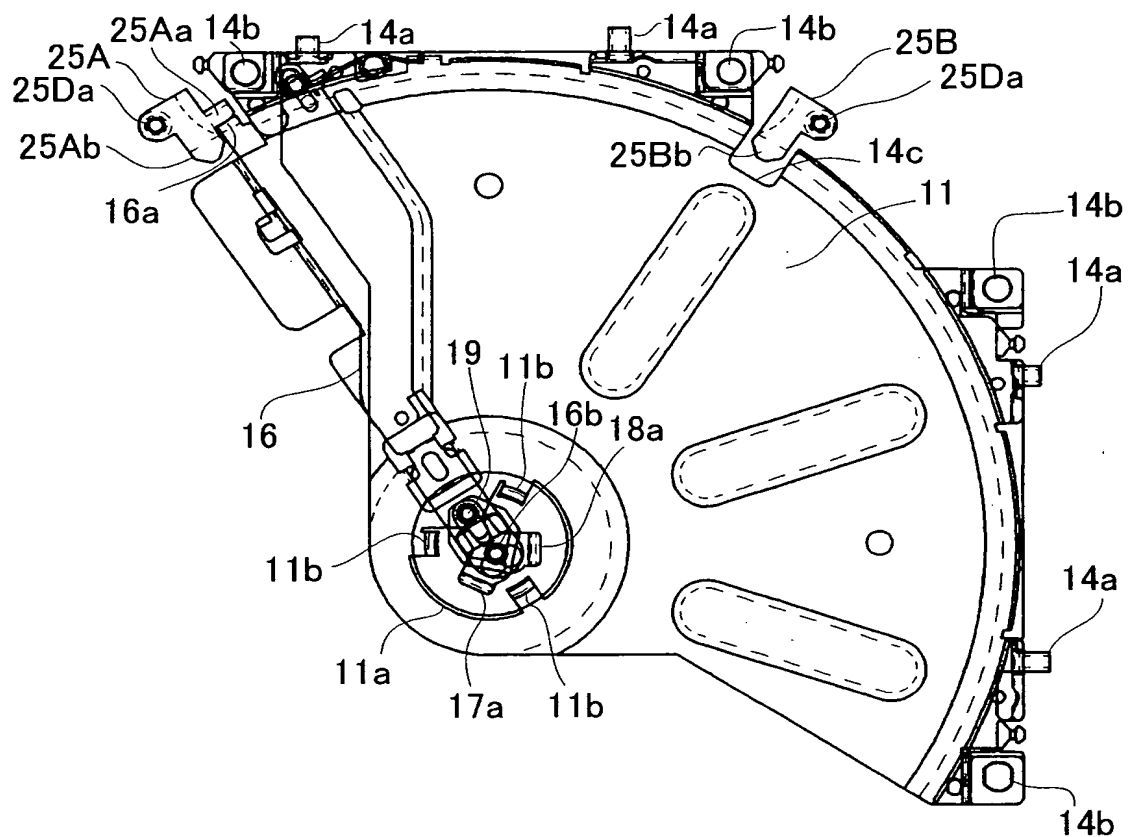


FIG. 22

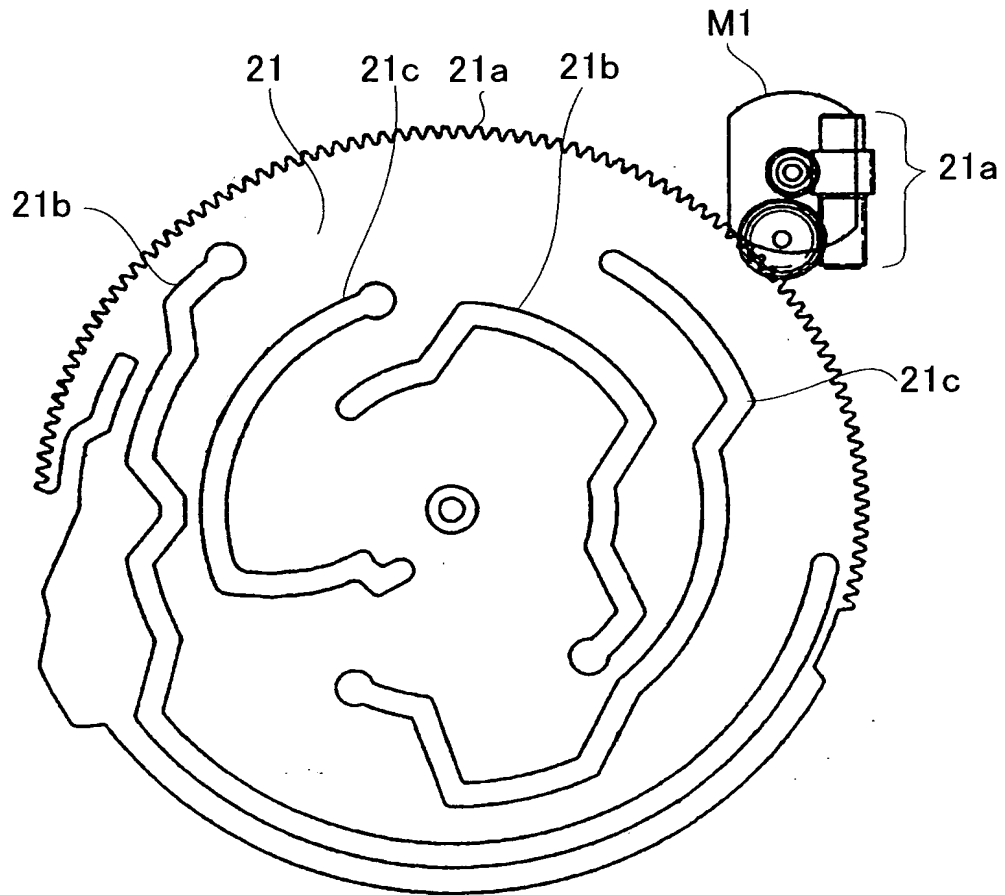


FIG. 23

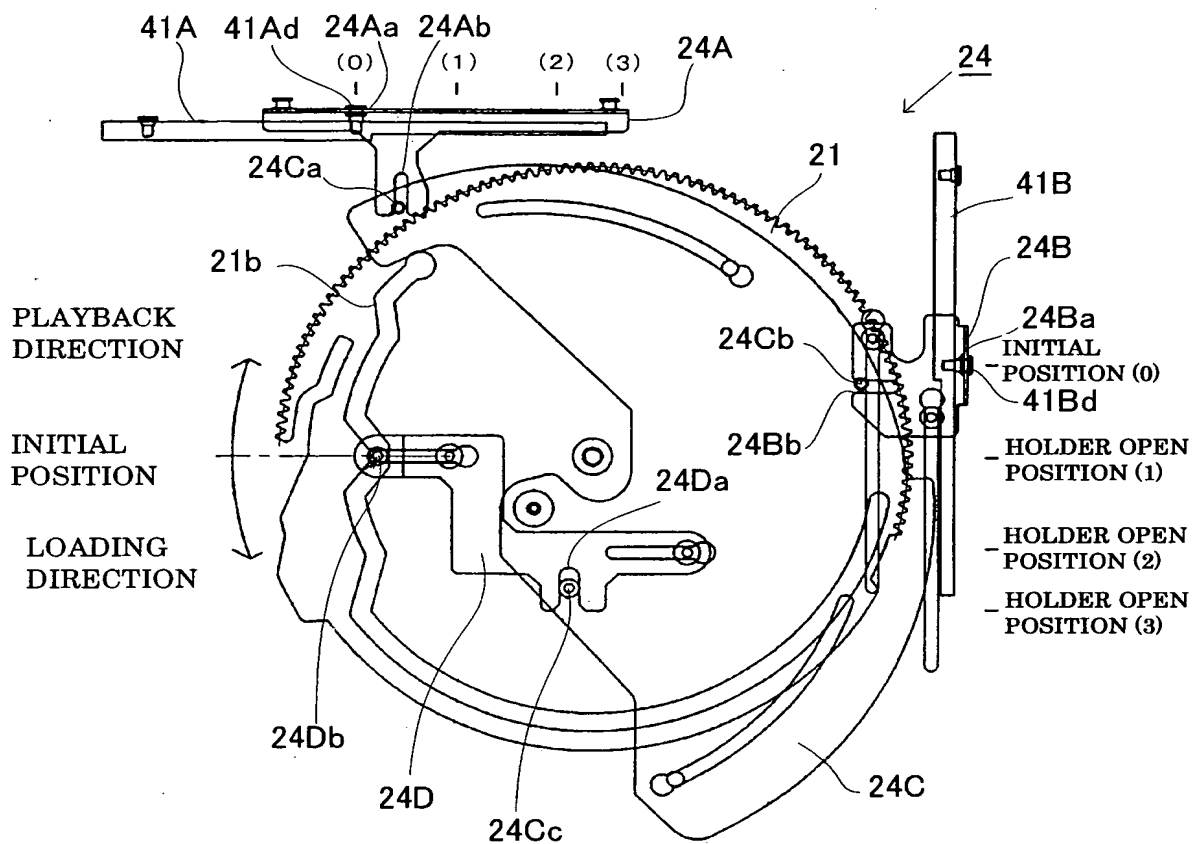


FIG. 24

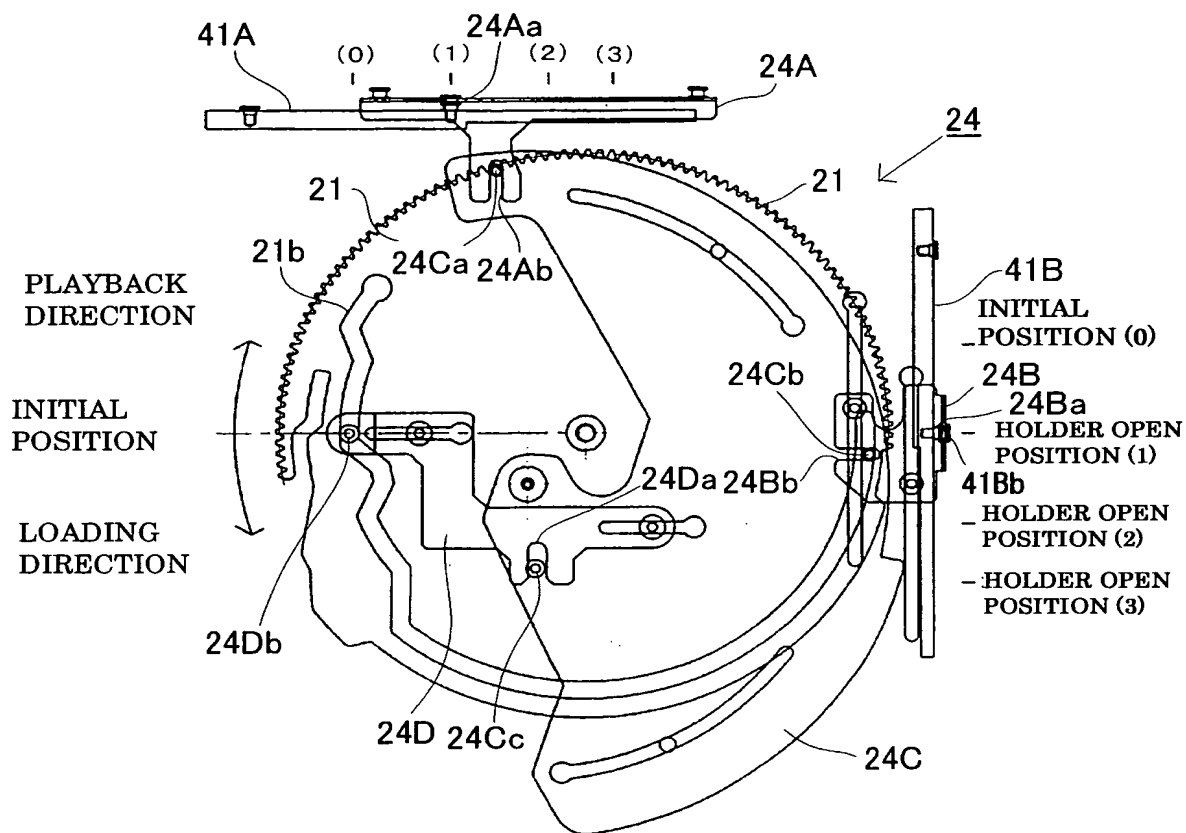


FIG. 25

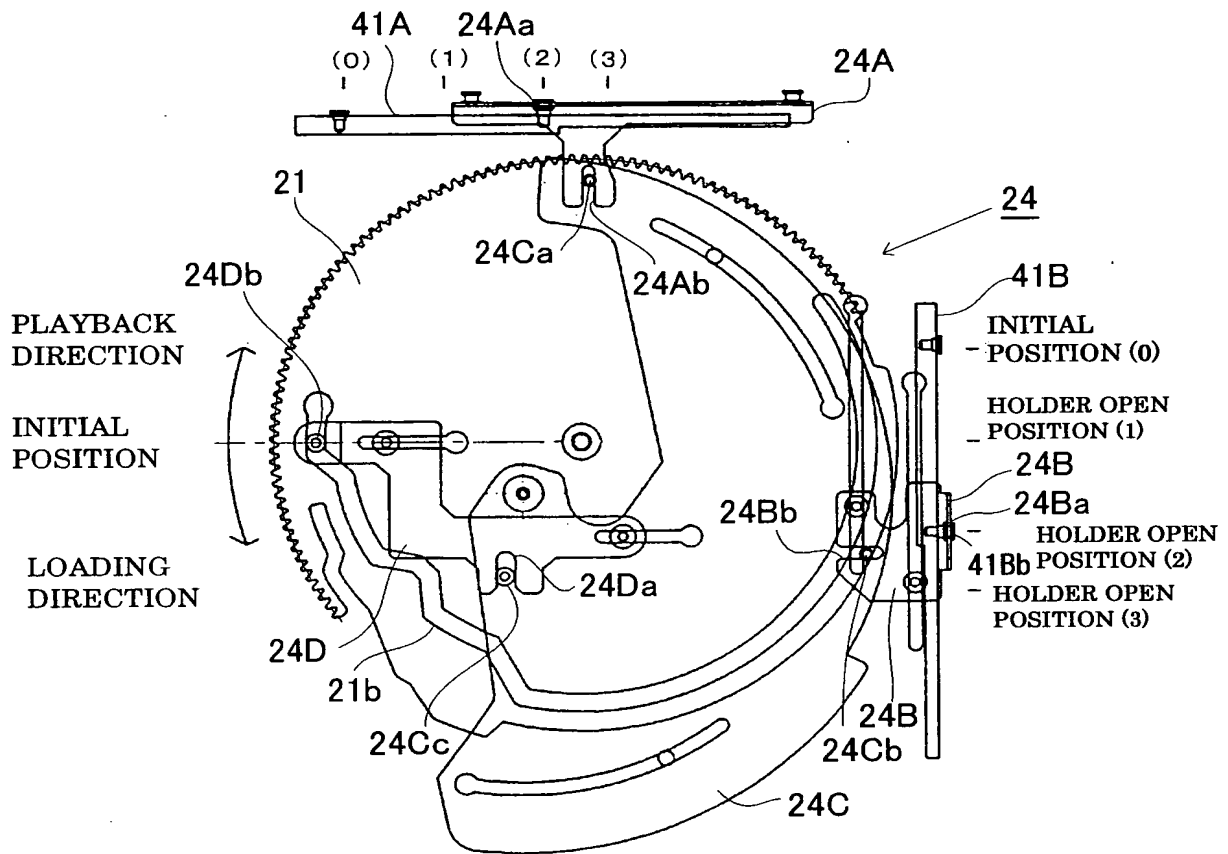


Fig. 1 is a schematic diagram of a tape transport mechanism. The diagram shows a central drum 21 with a gear 21b. A tape 24 is wound around the drum. A tape head 41A is positioned above the drum, and a tape guide 41B is positioned to the right. The tape 24 has a series of sprockets 24Aa, 24Ab, 24Bb, 24Cb, 24Cc, and 24Da. The tape 24 is shown in four positions: (0) INITIAL POSITION, (1) HOLDER OPEN POSITION, (2) HOLDER OPEN POSITION, and (3) HOLDER OPEN POSITION. Arrows indicate the 'PLAYBACK DIRECTION' and 'LOADING DIRECTION'.

FIG. 27

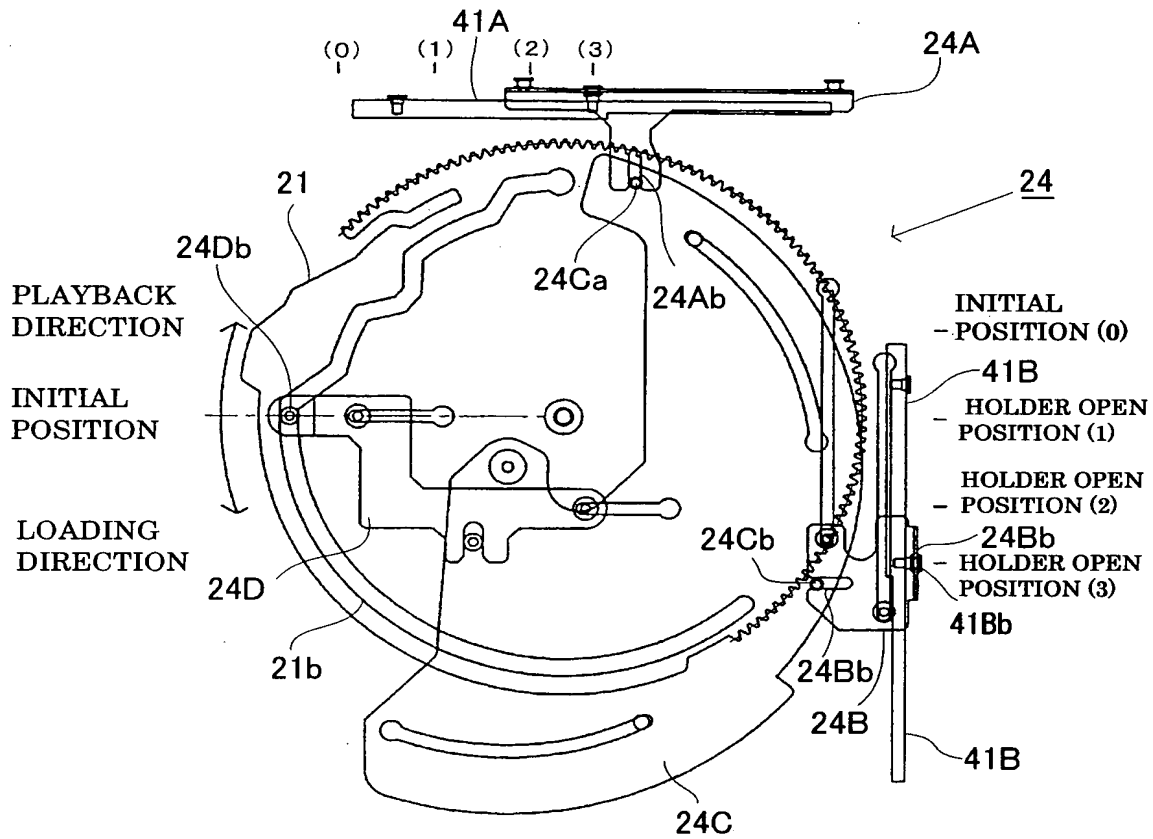


FIG. 28

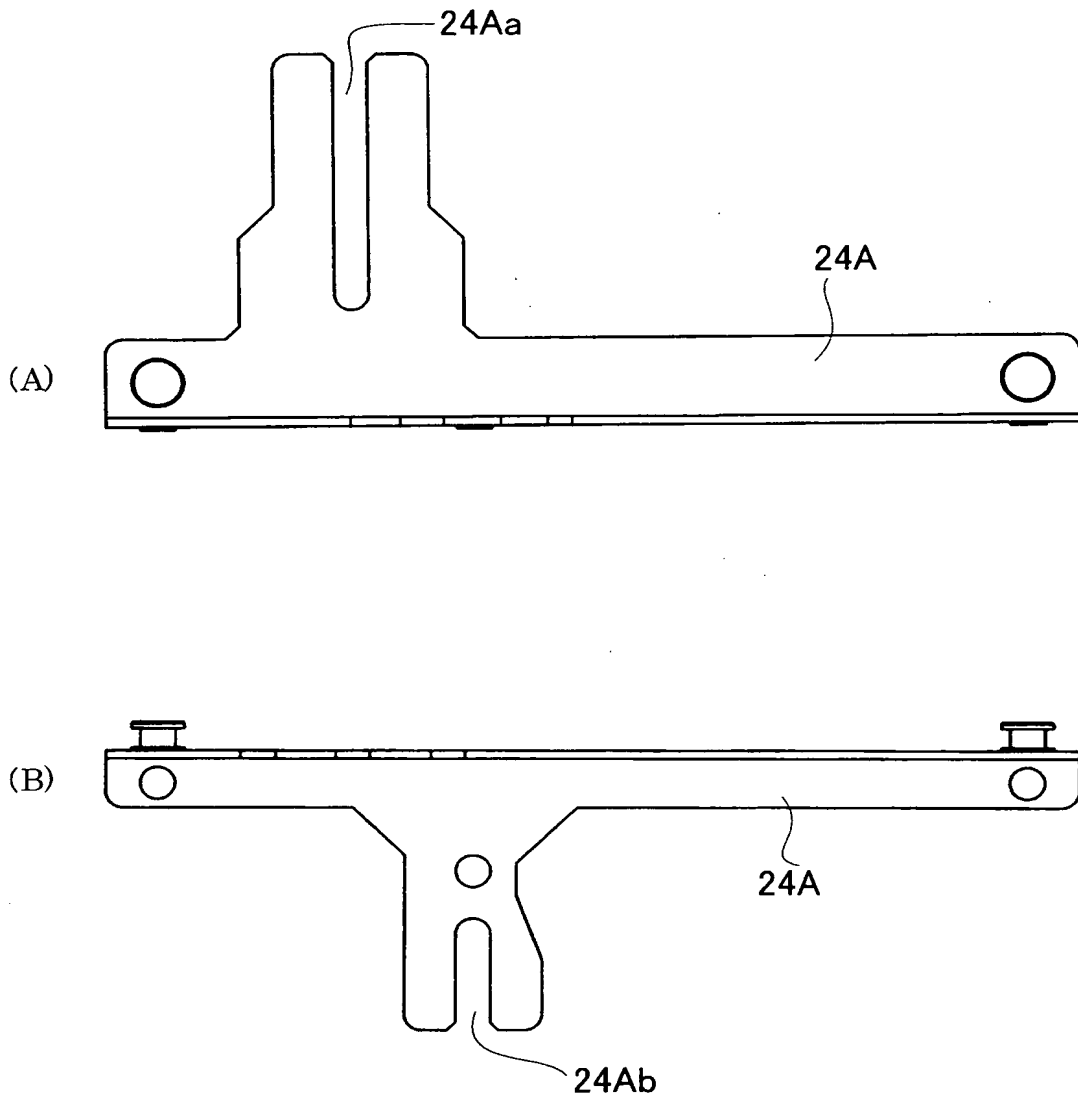


FIG. 29

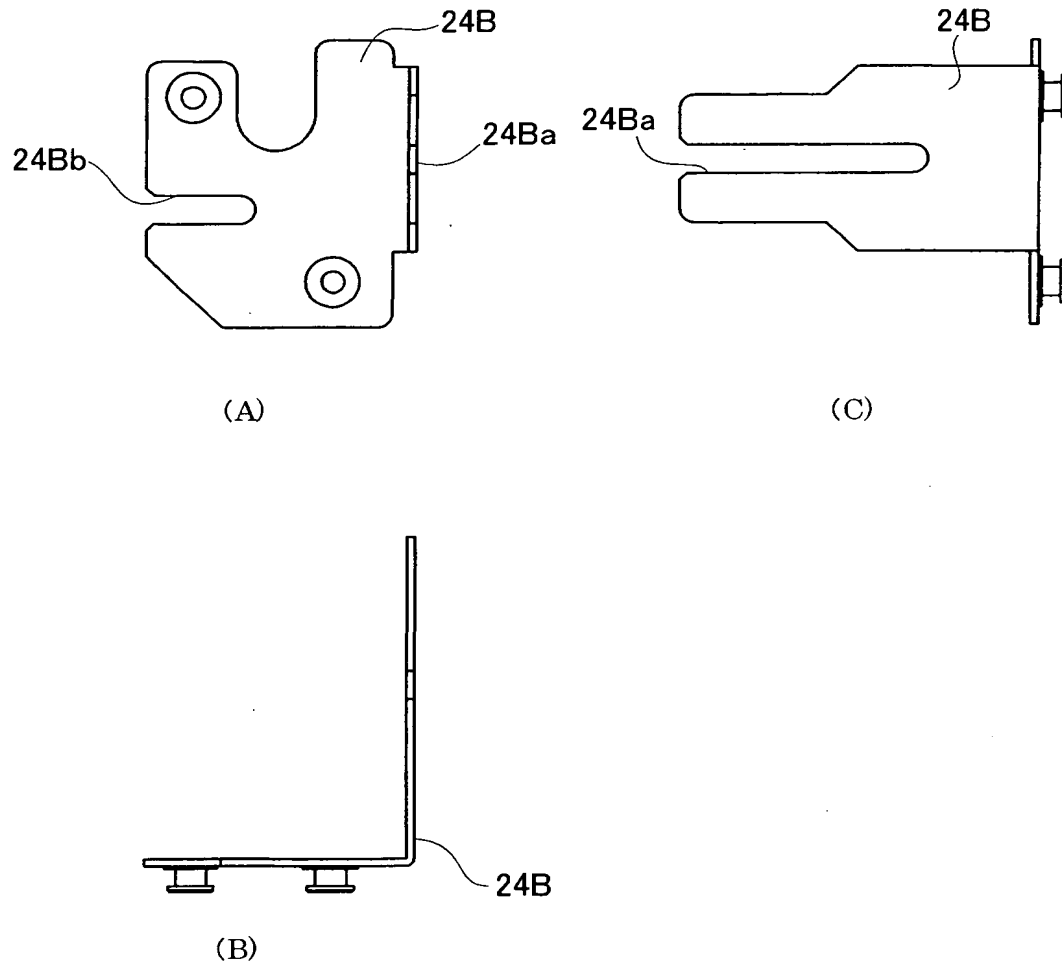


FIG. 30

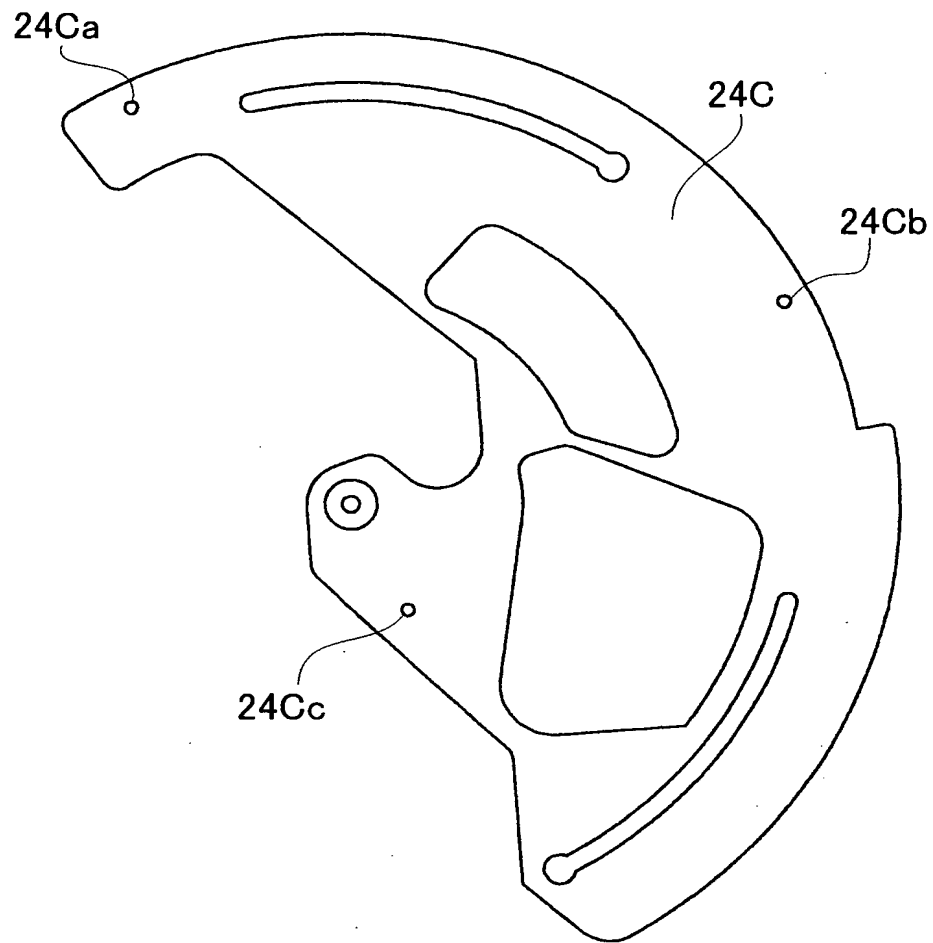


FIG. 31

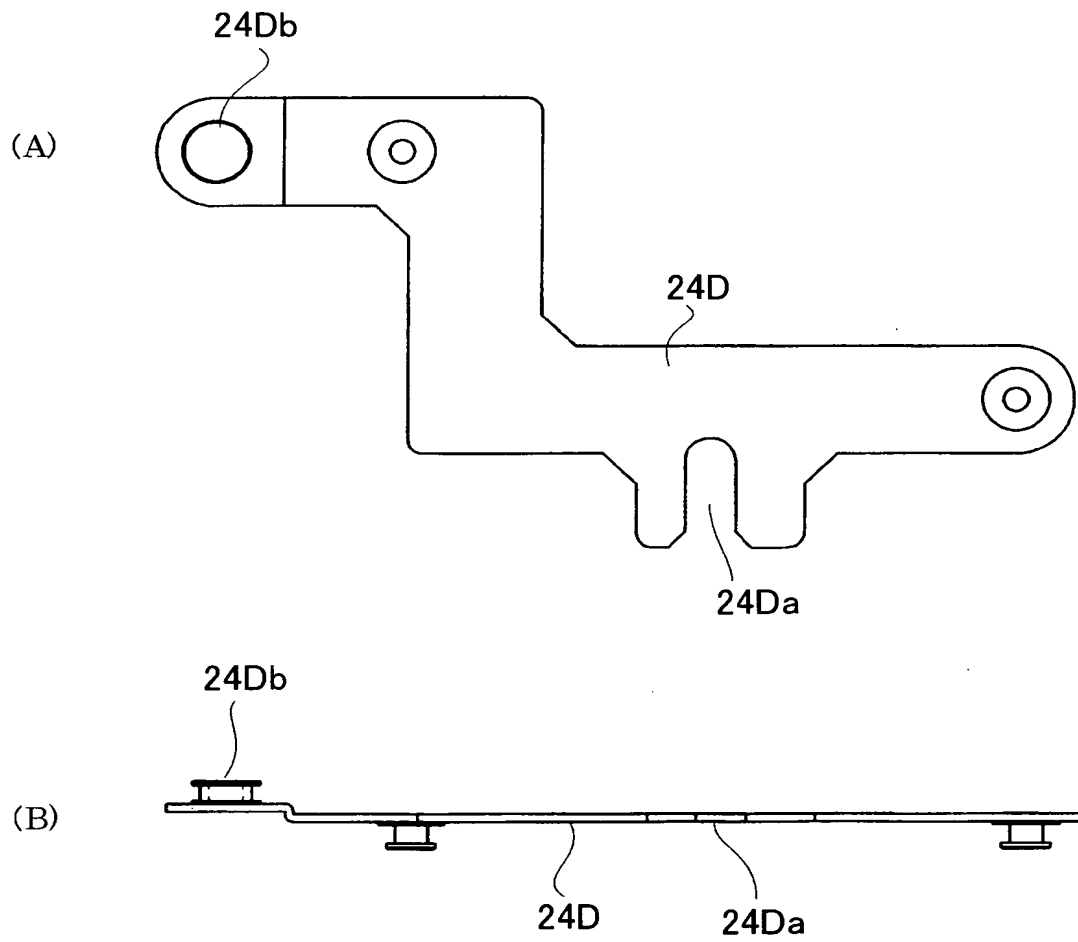


FIG. 32

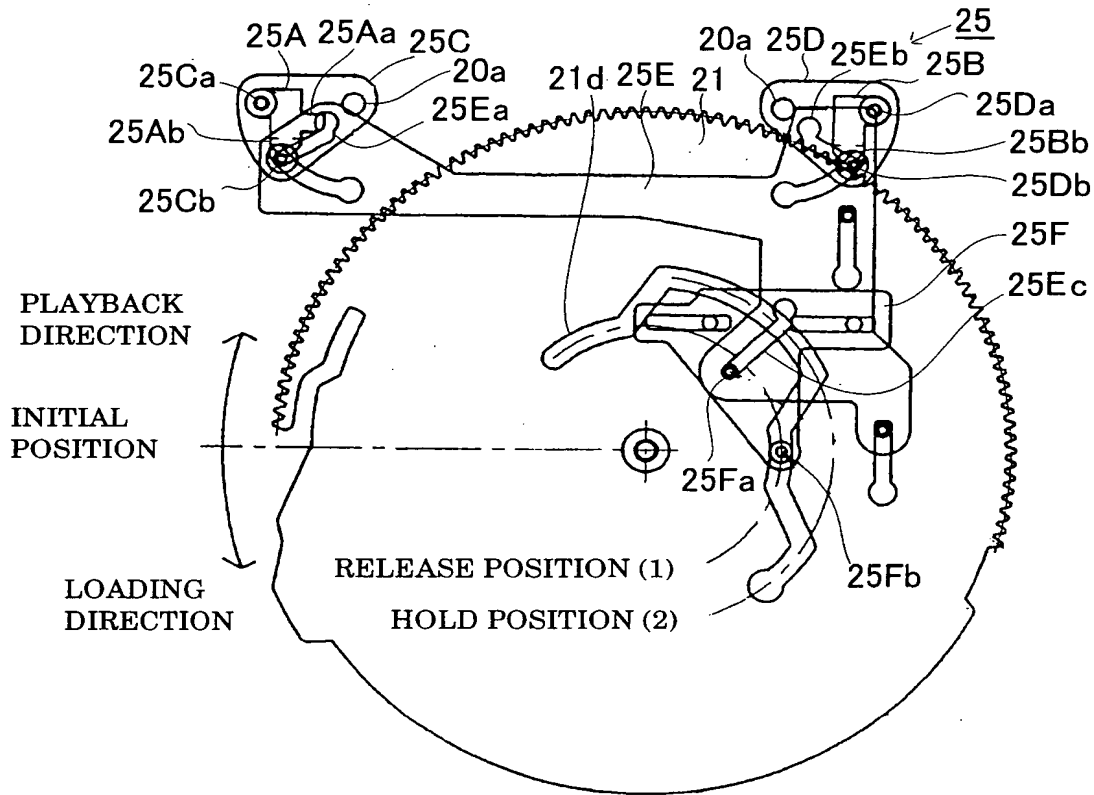


FIG. 33

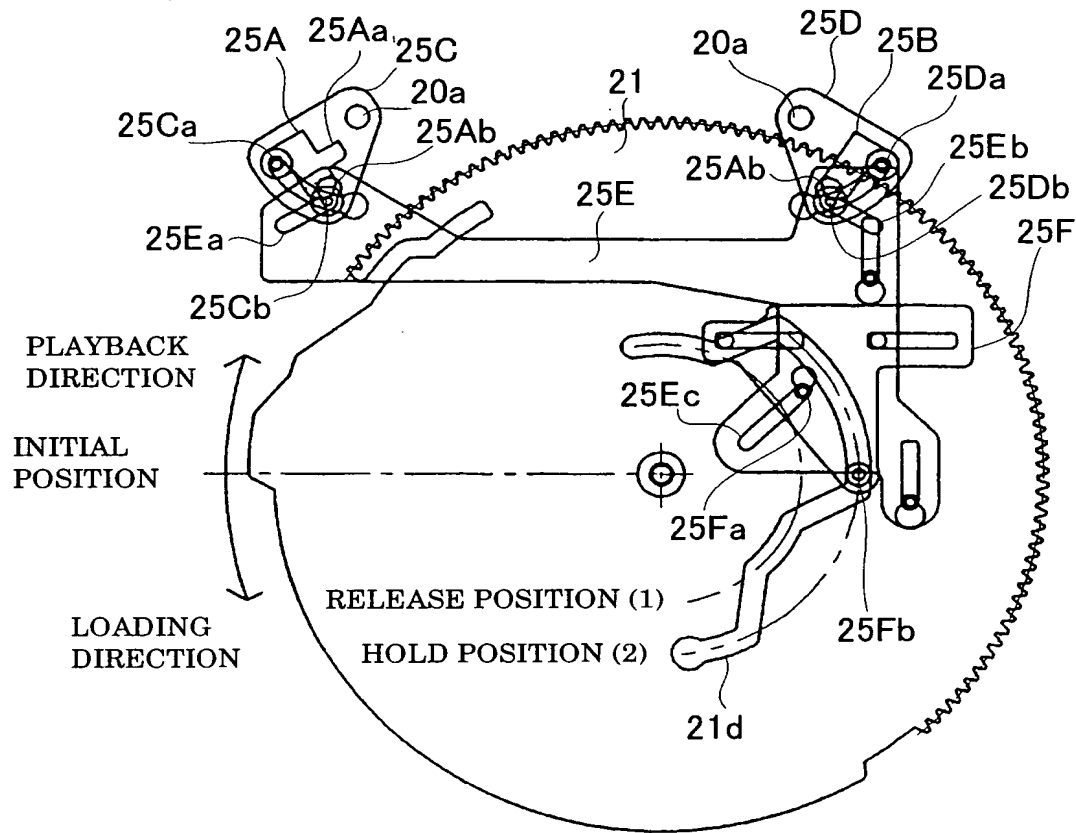


FIG. 34

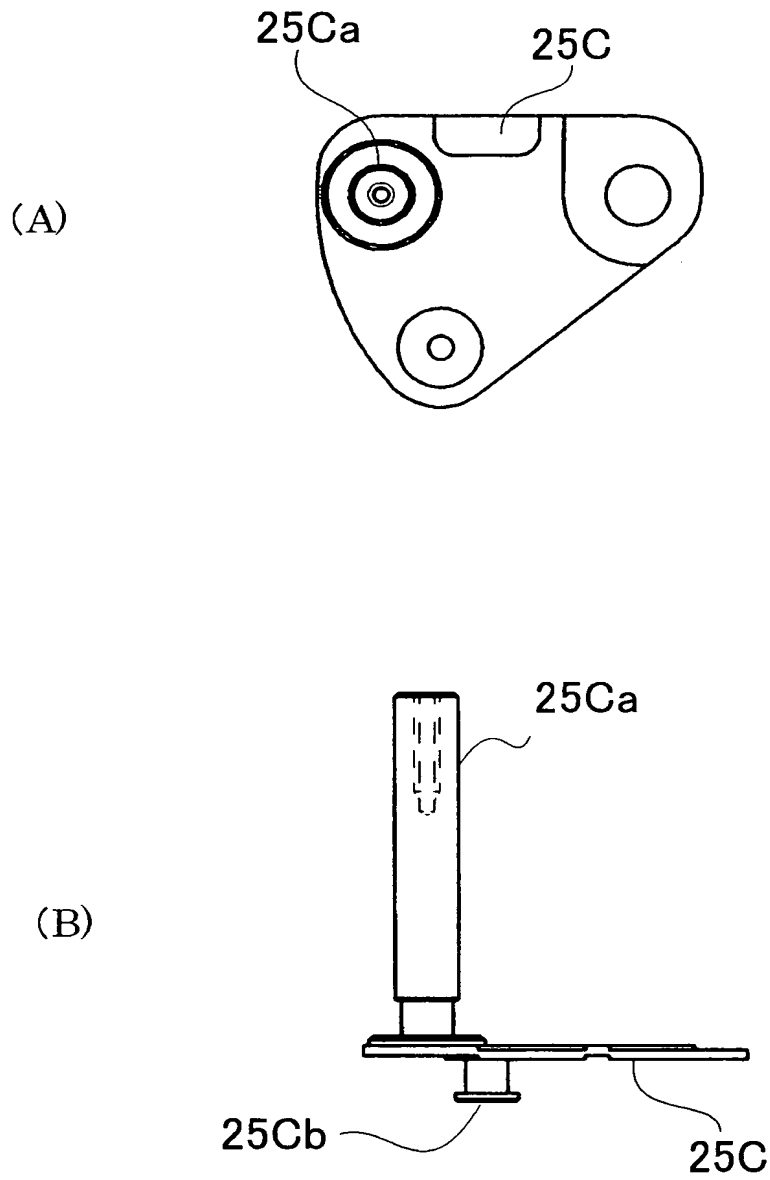


FIG. 35

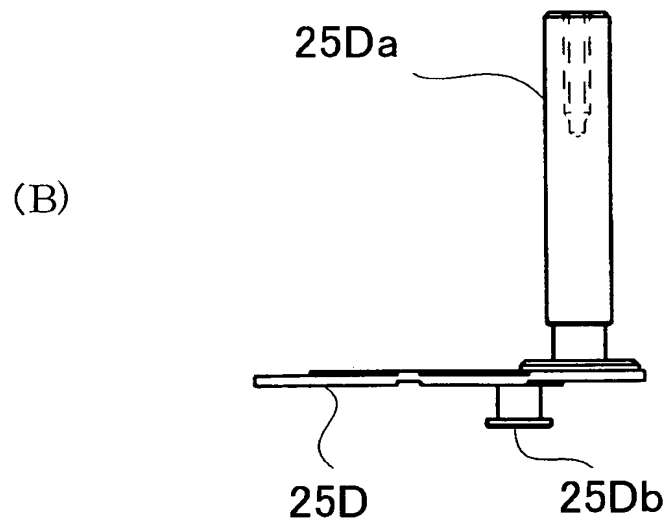
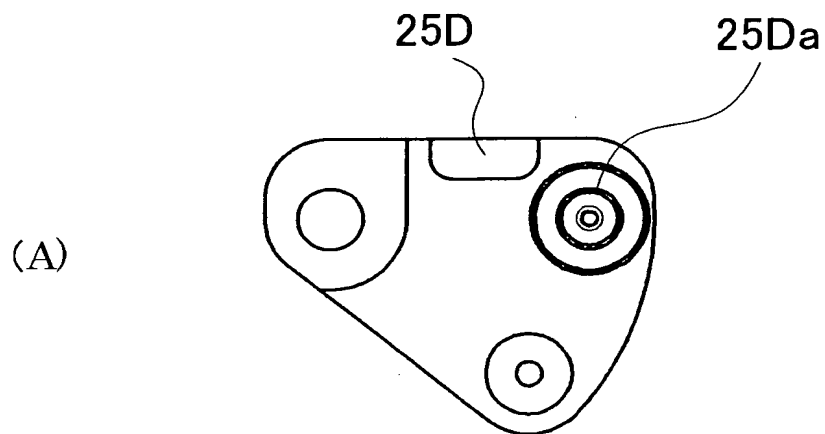


FIG. 36

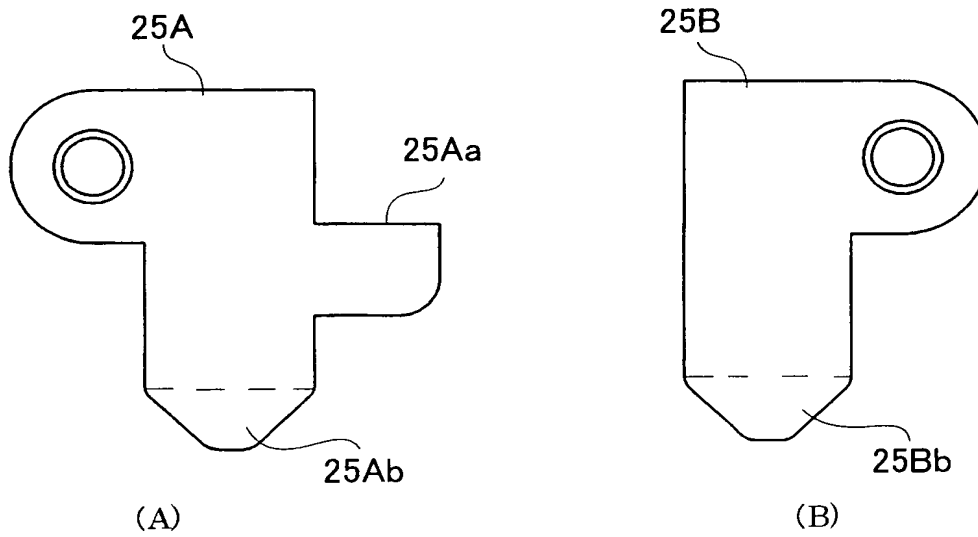


FIG. 37

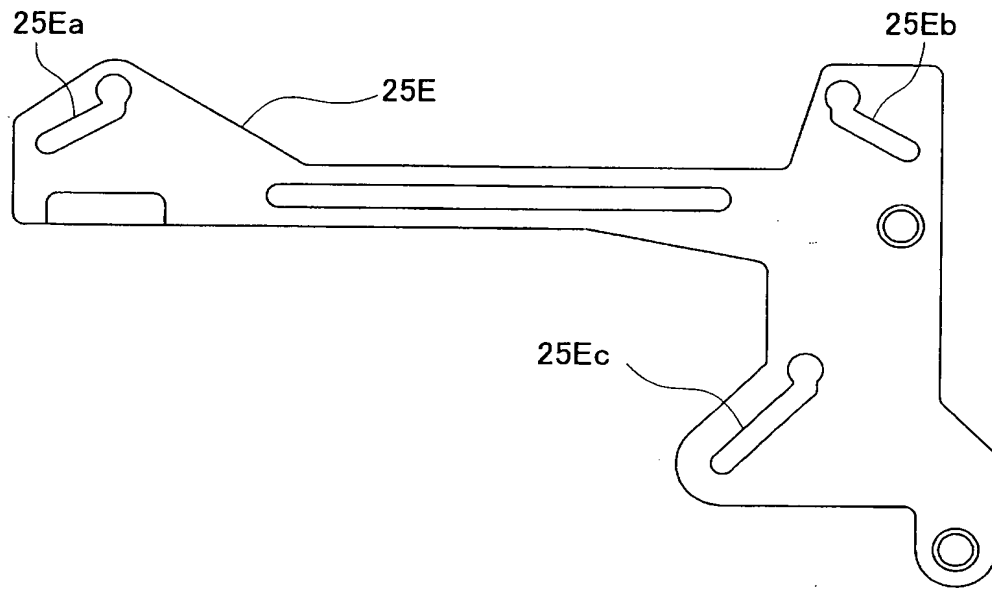


FIG. 38

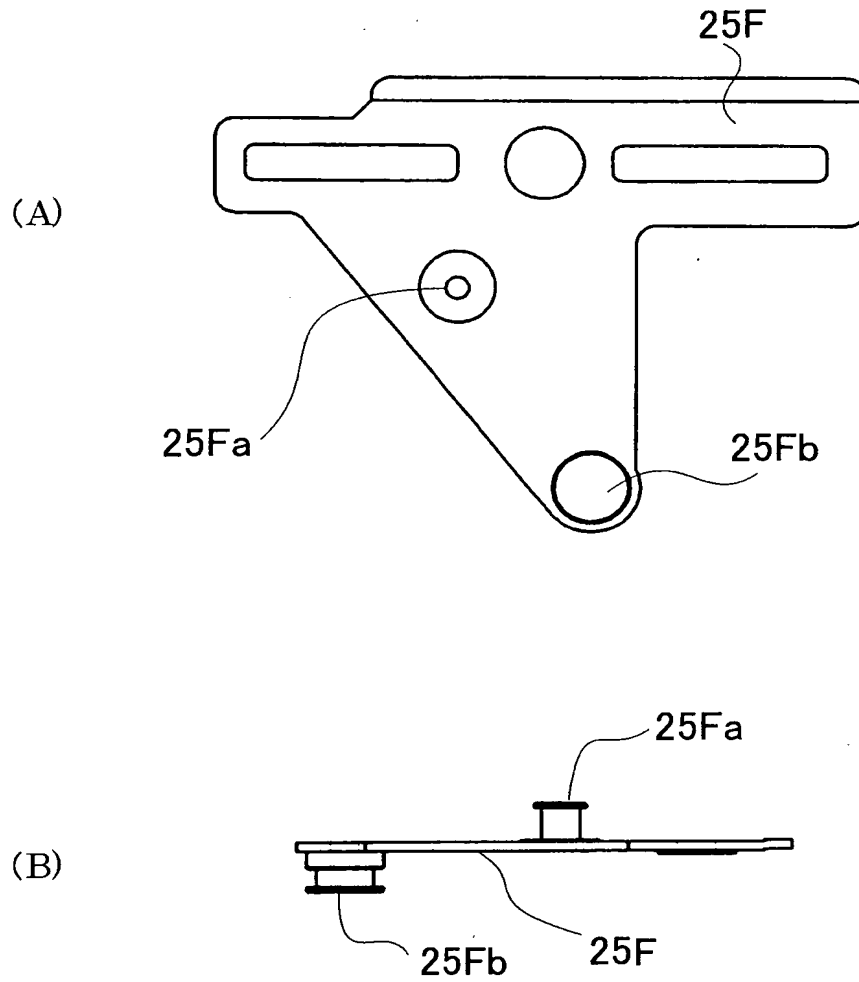


FIG. 39

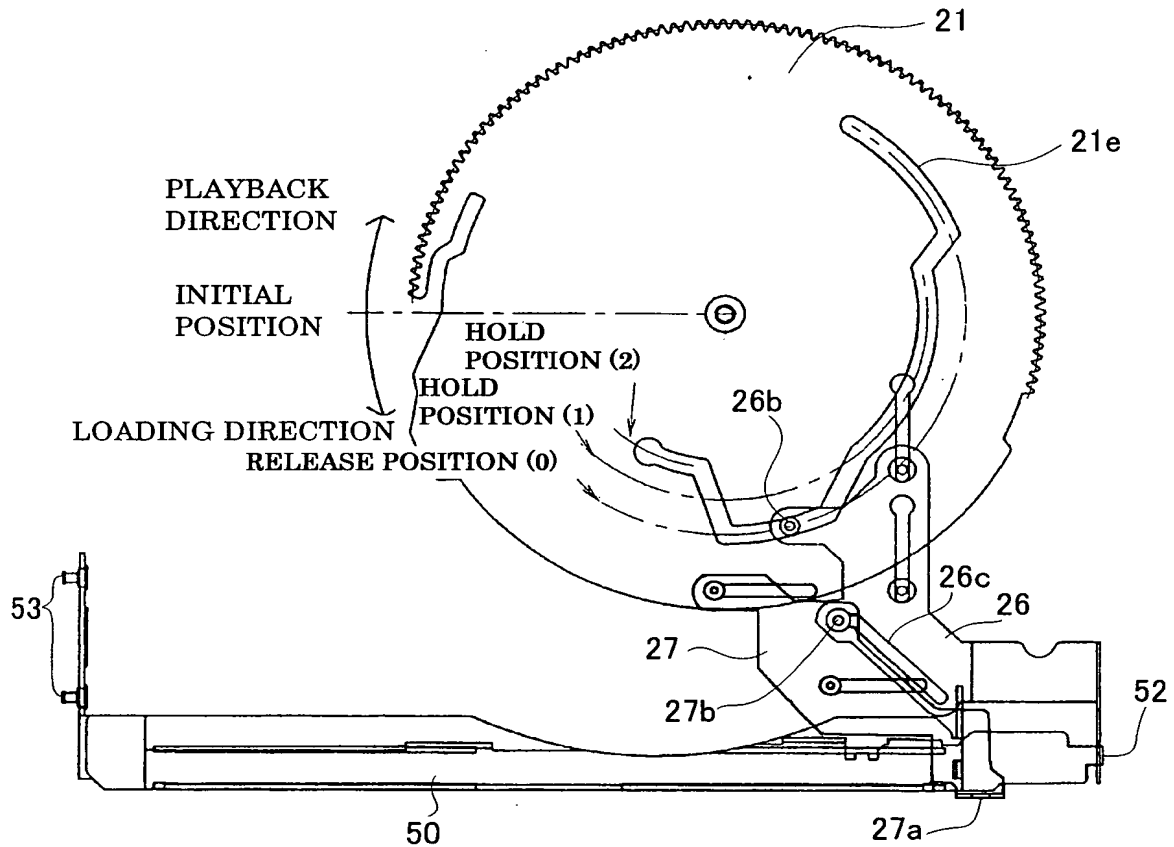


FIG. 40

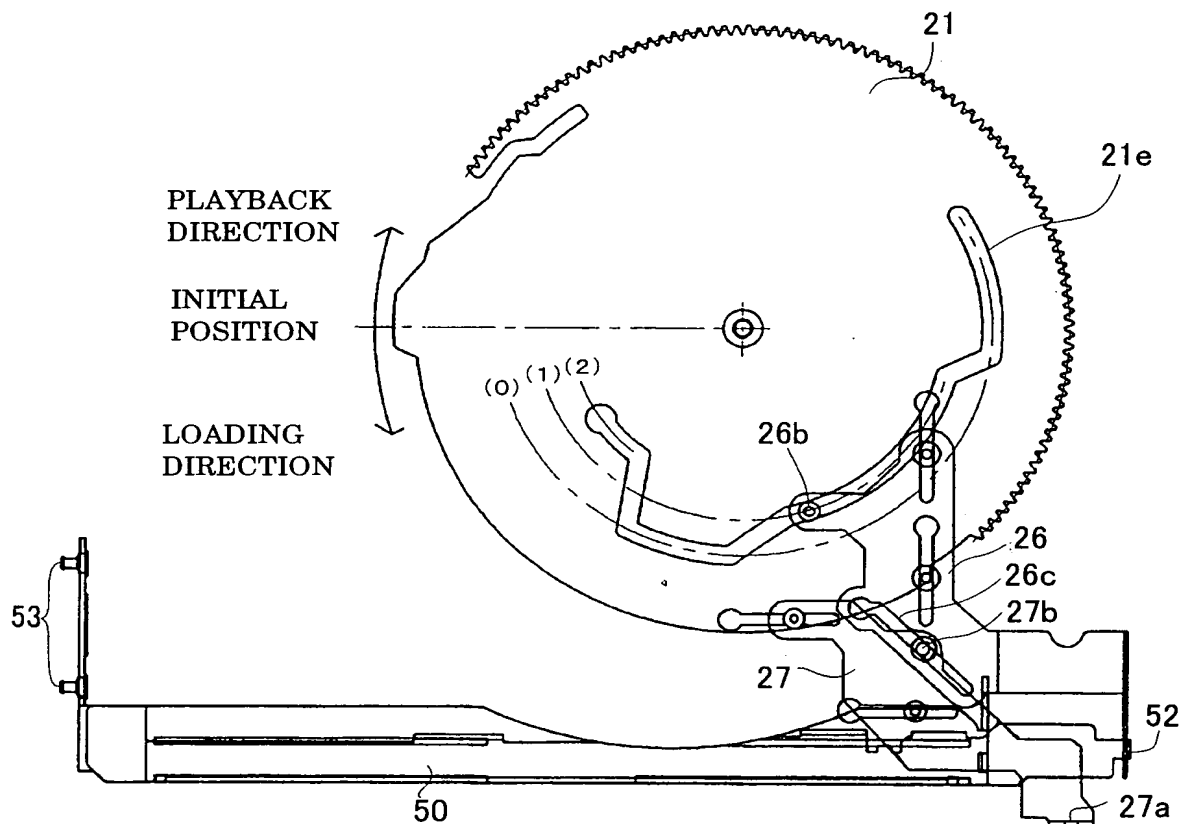


FIG. 41

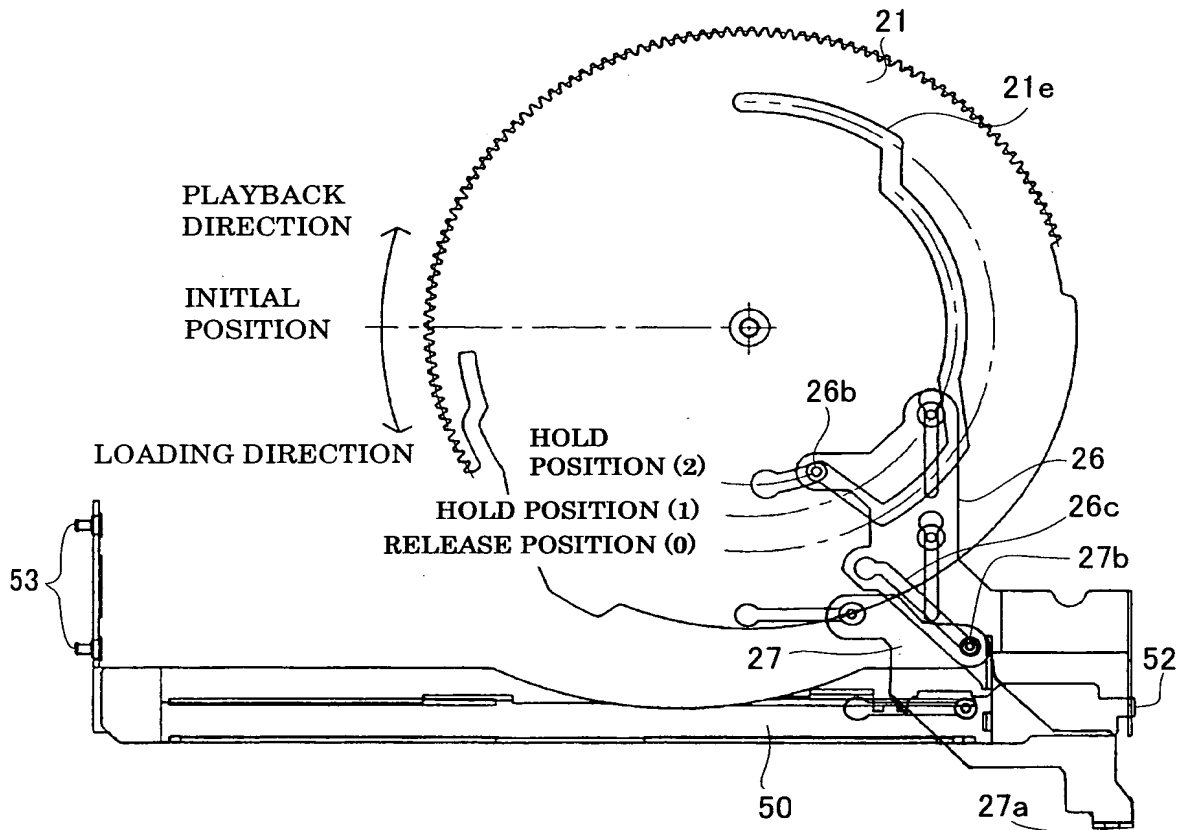


FIG. 42

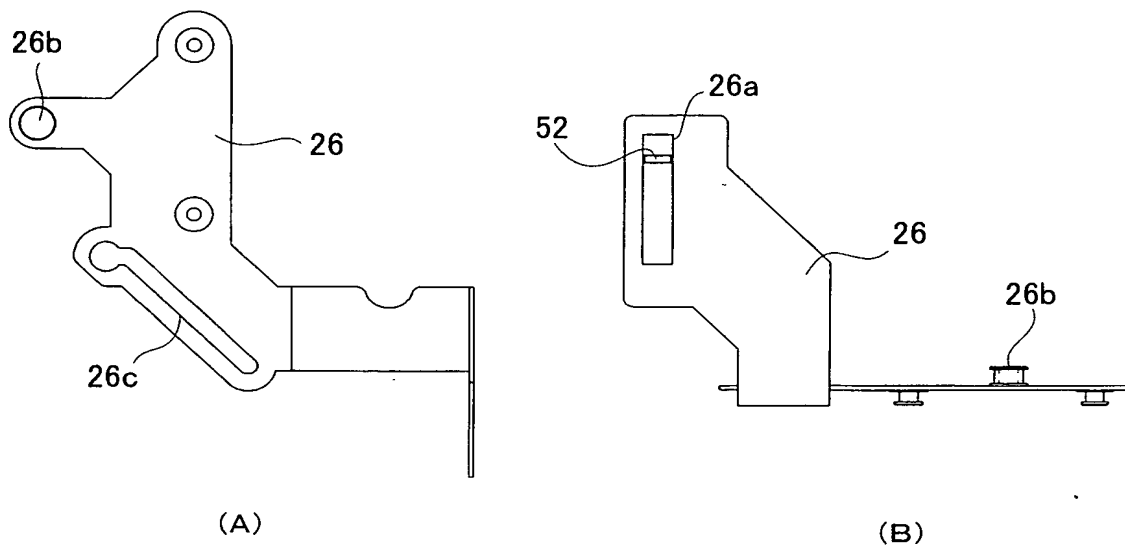


FIG. 43

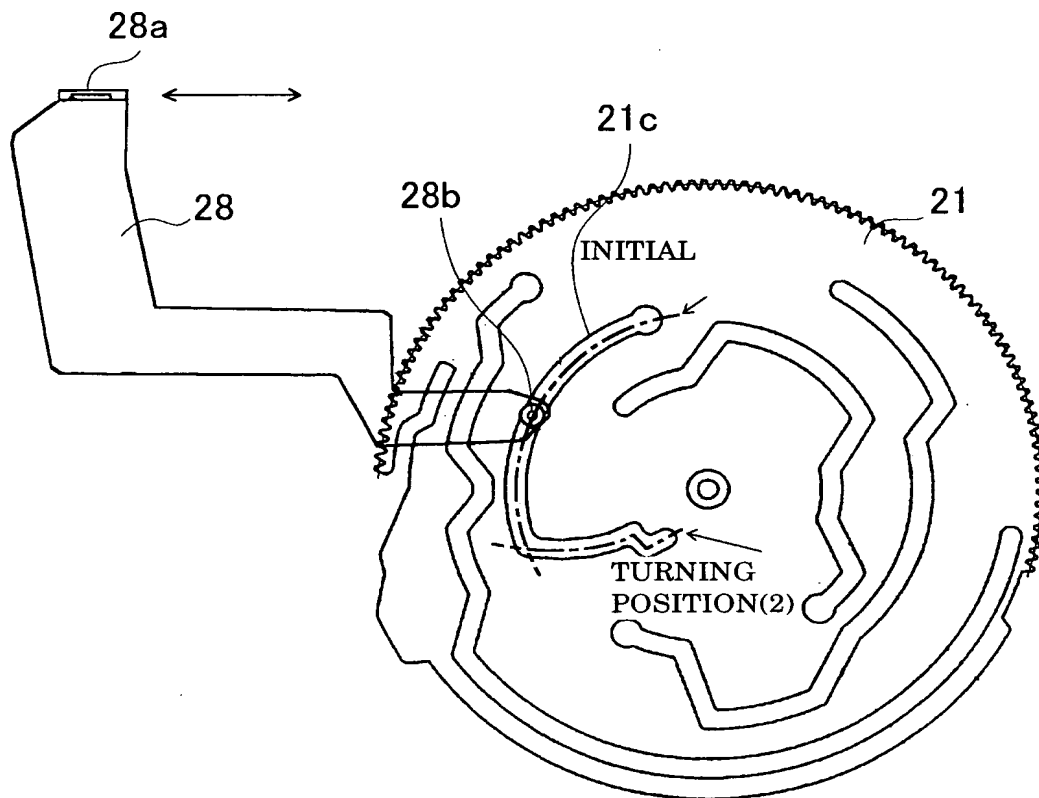


FIG. 44

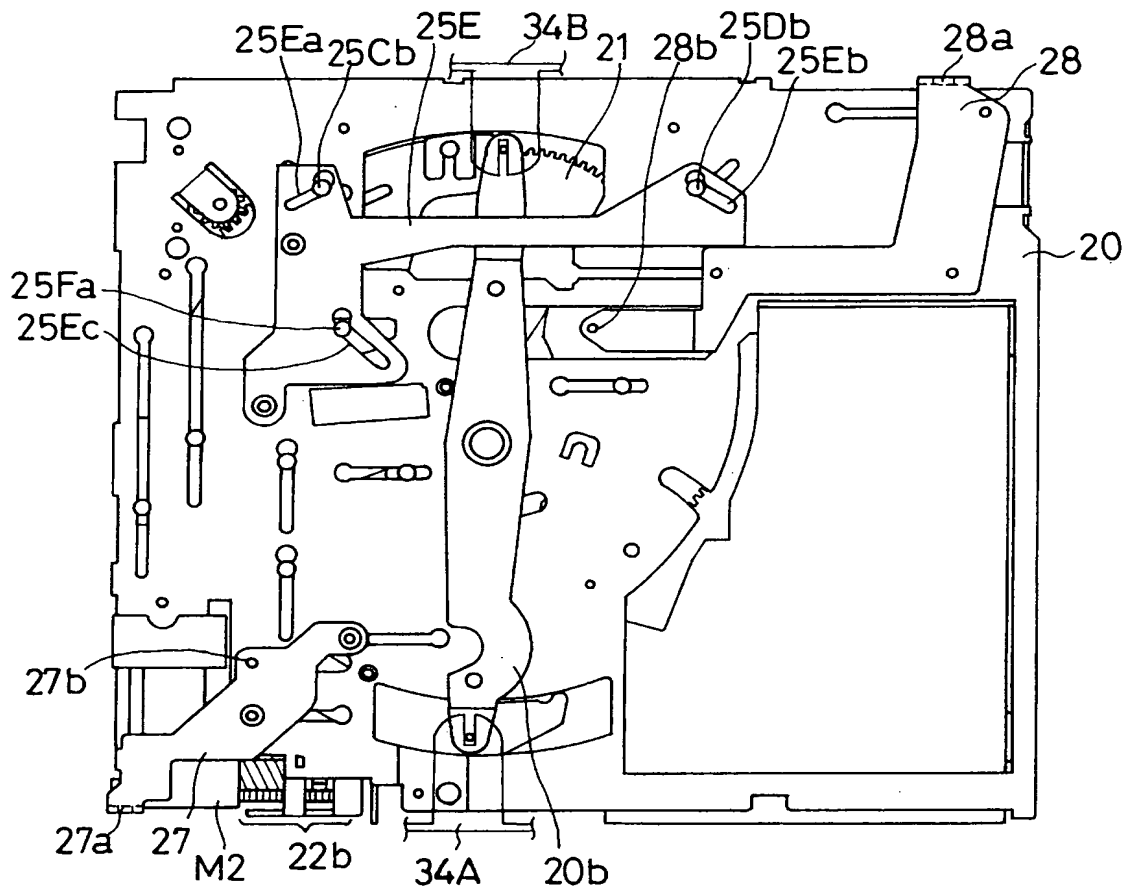


FIG. 45

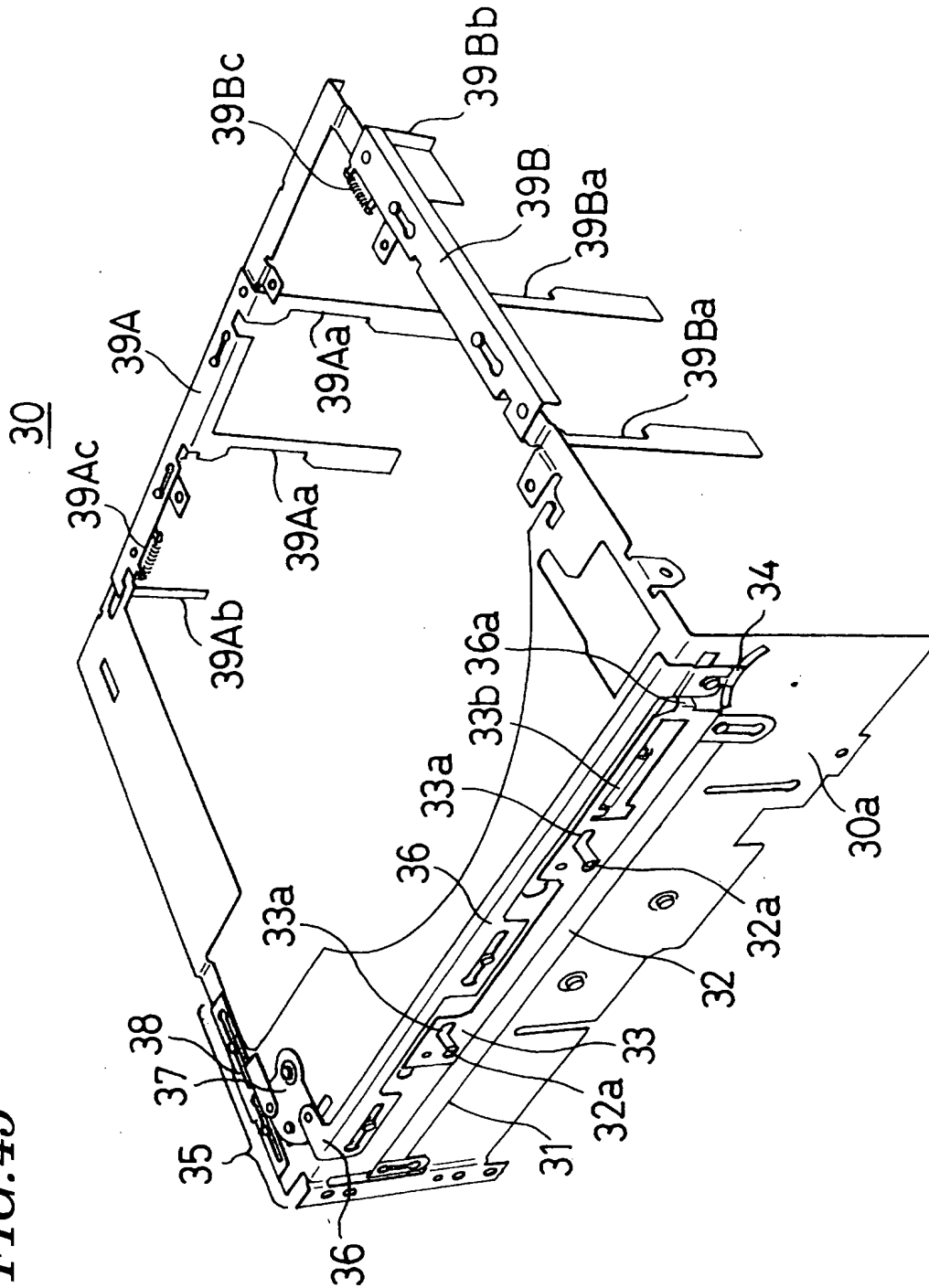


FIG. 46

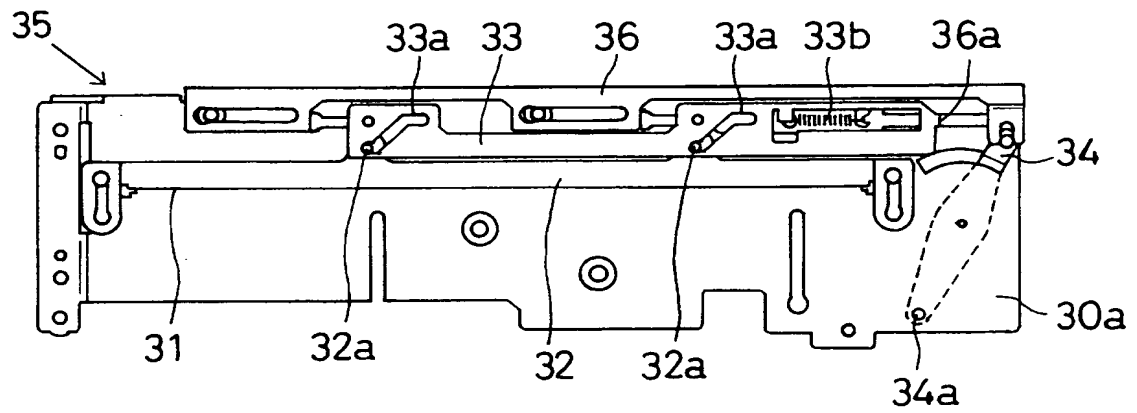


FIG. 47

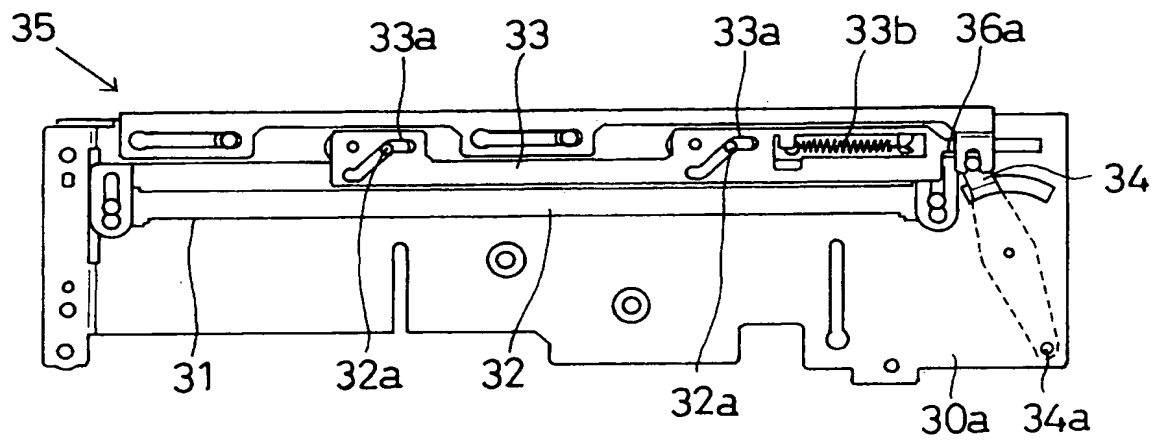


FIG. 48

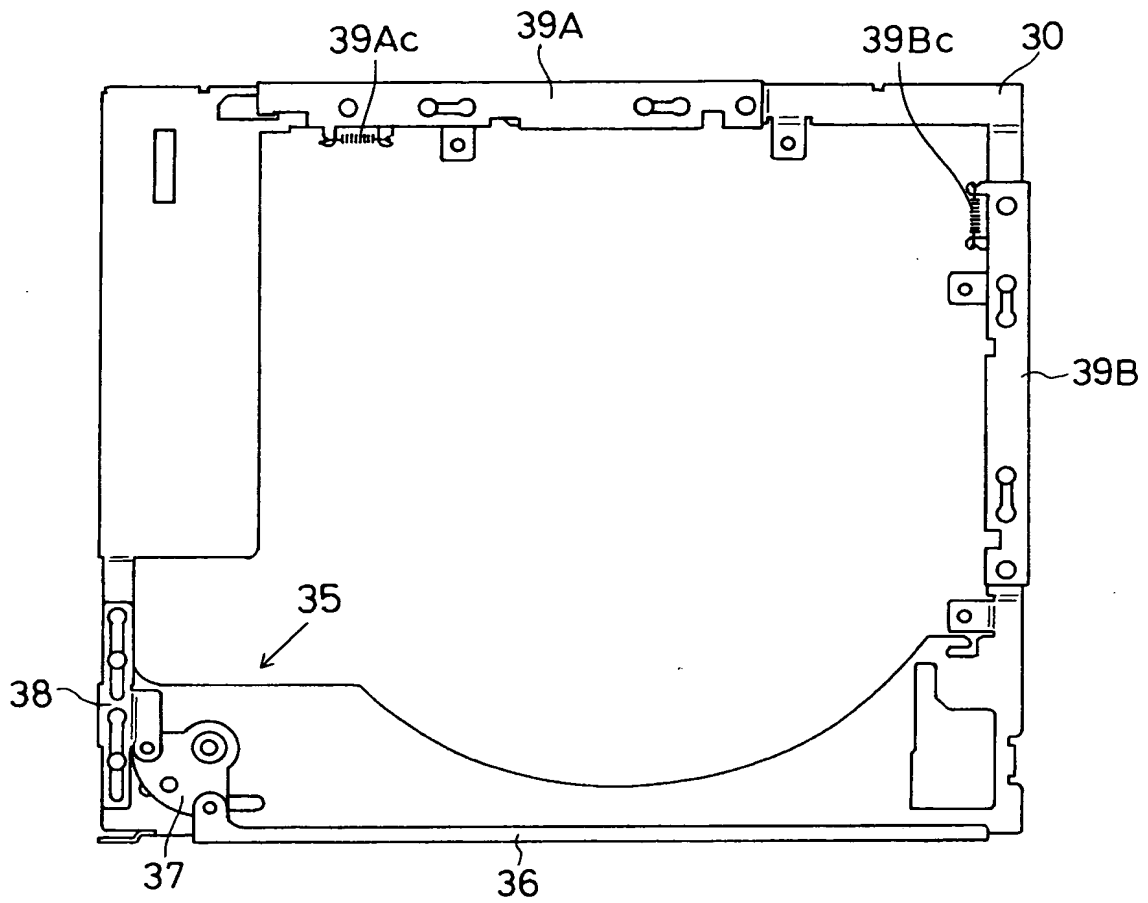


FIG. 49

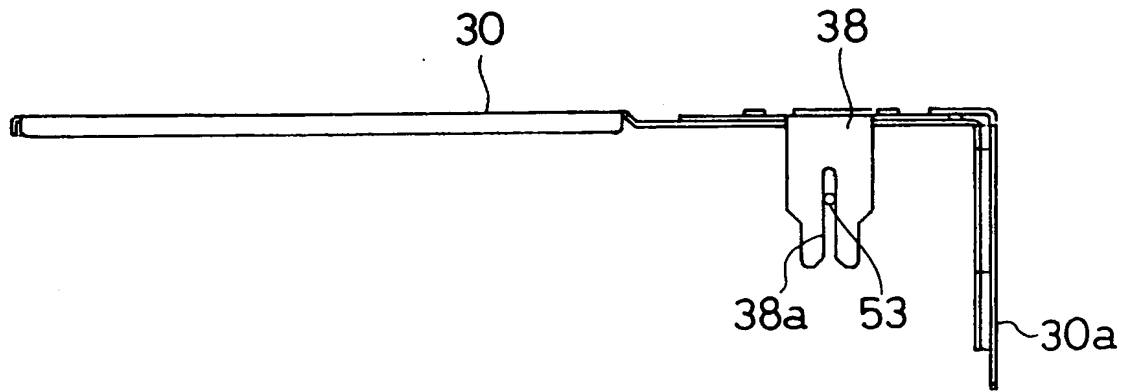


FIG. 50

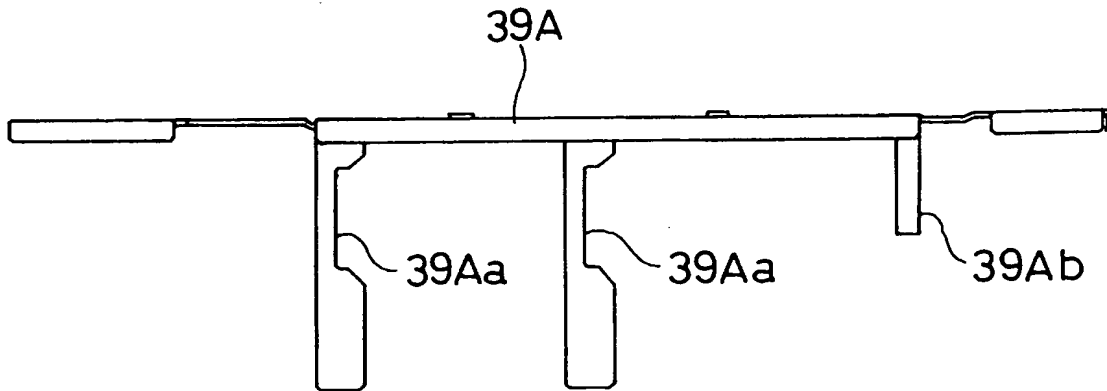
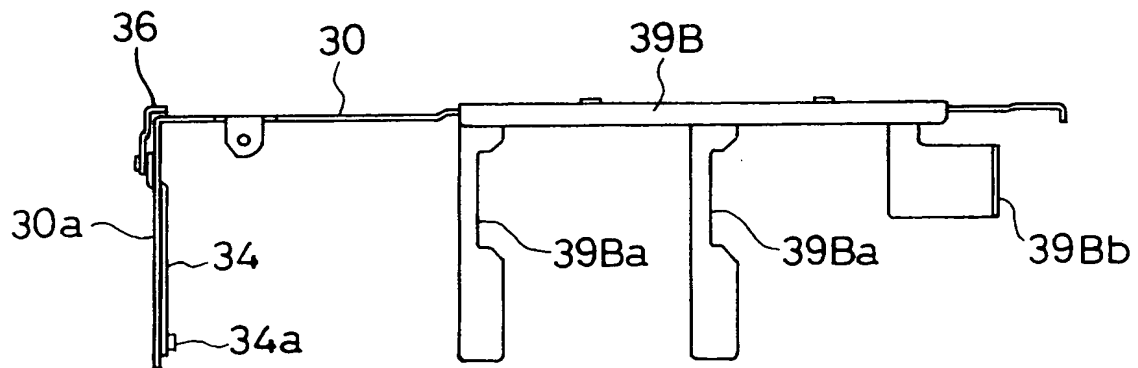


FIG. 51



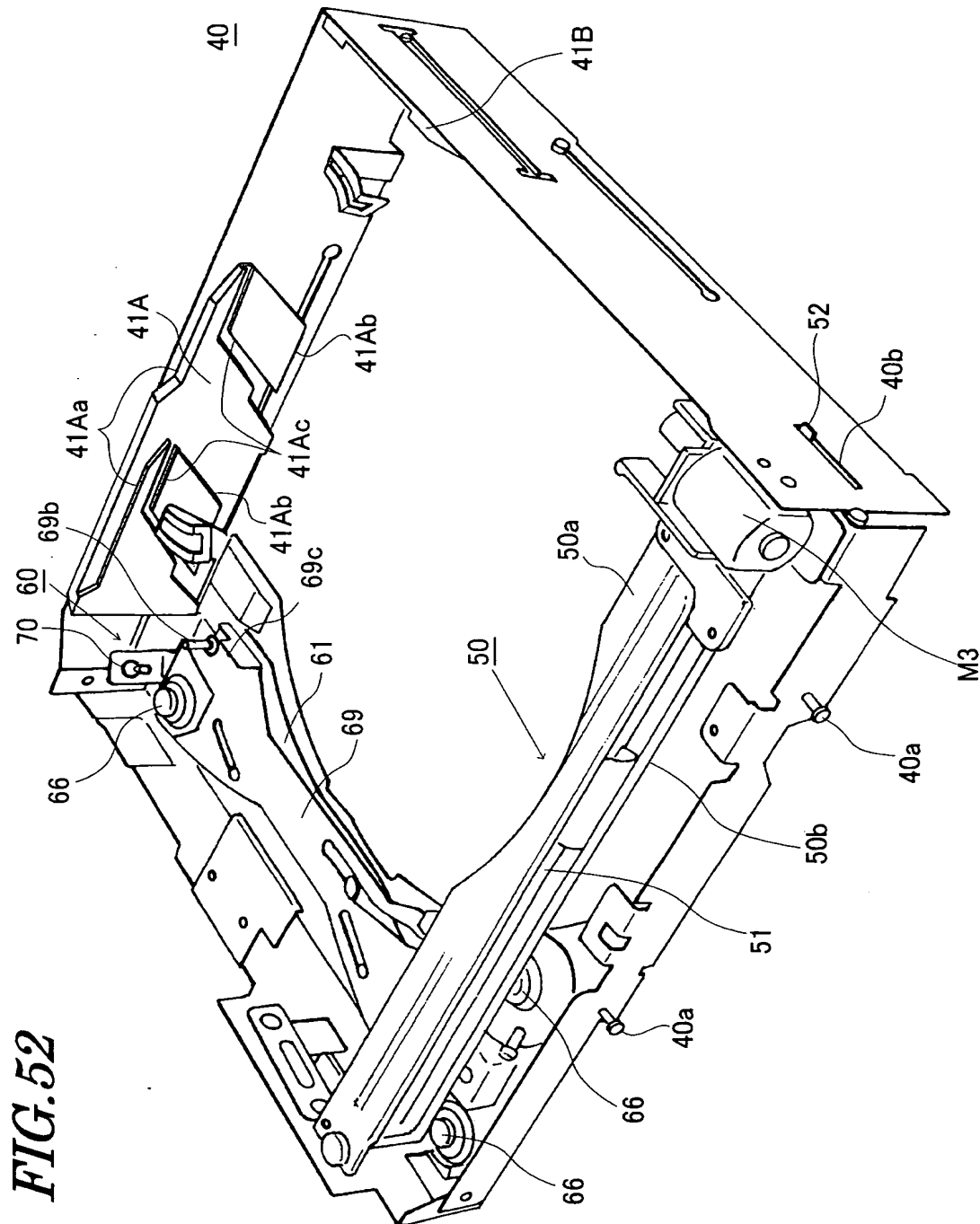


FIG. 53

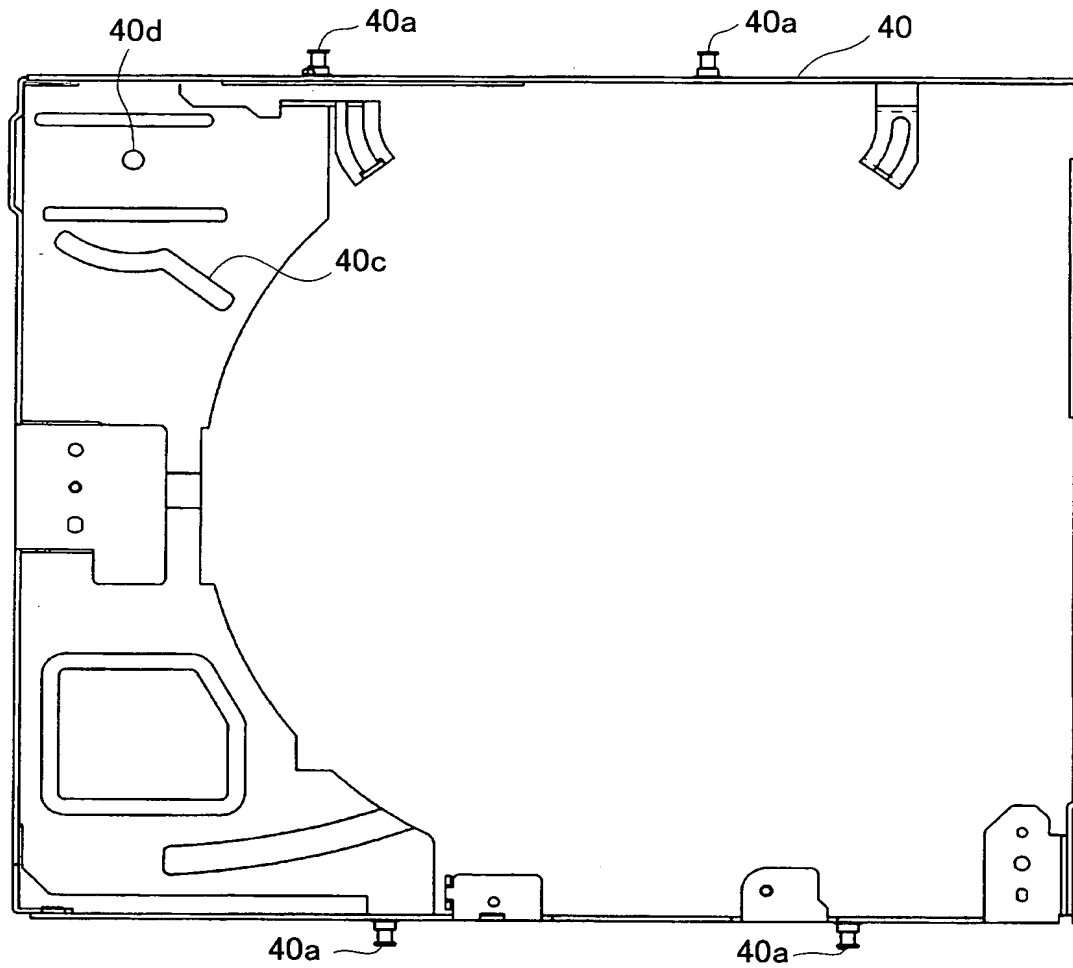


FIG. 54

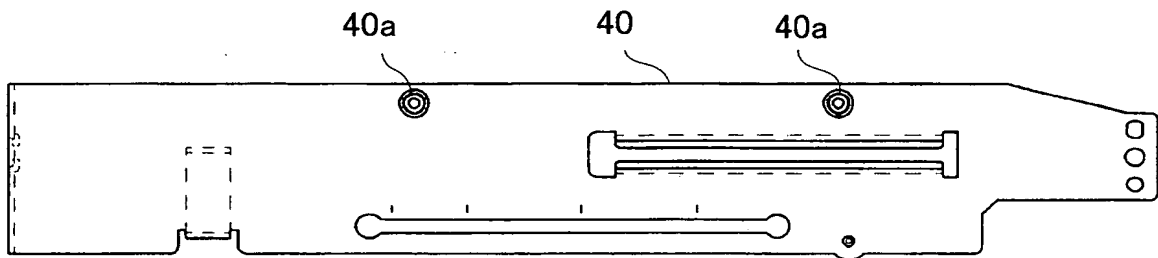


FIG. 55

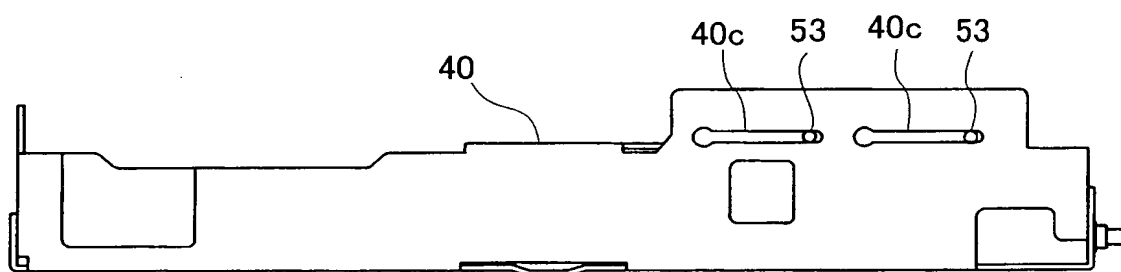


FIG. 56

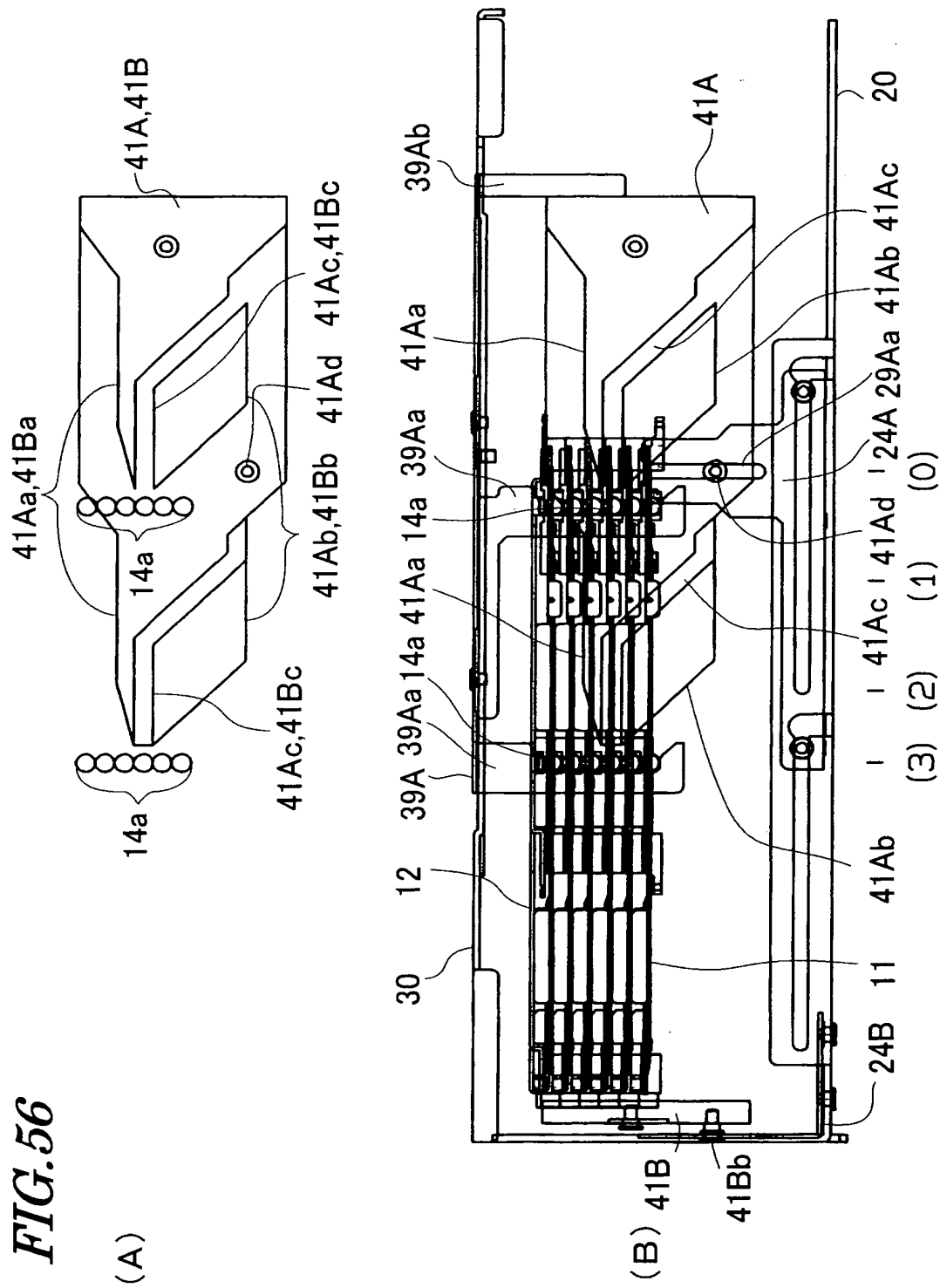
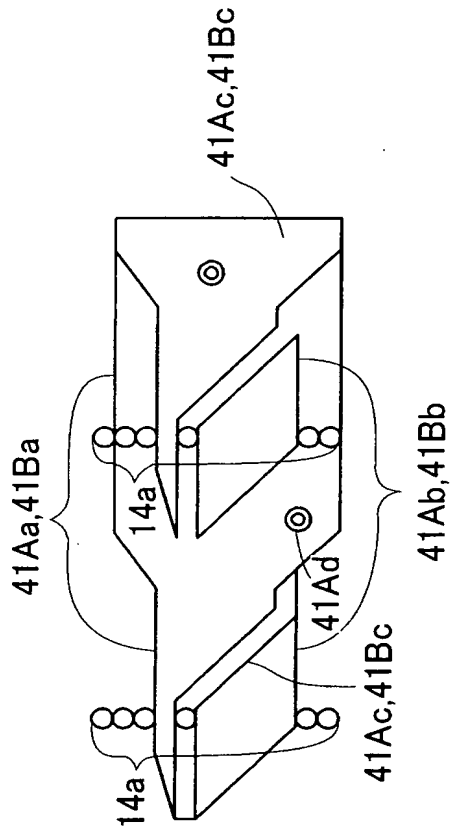


FIG. 57

(A)



(B)

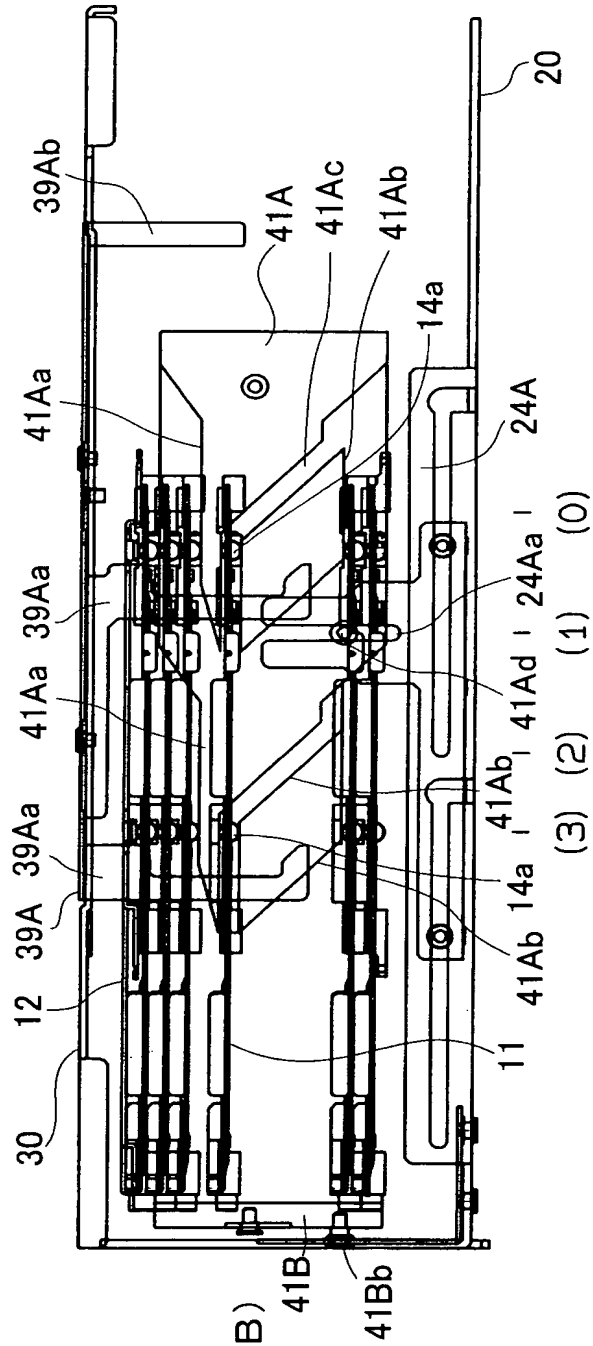


FIG. 58

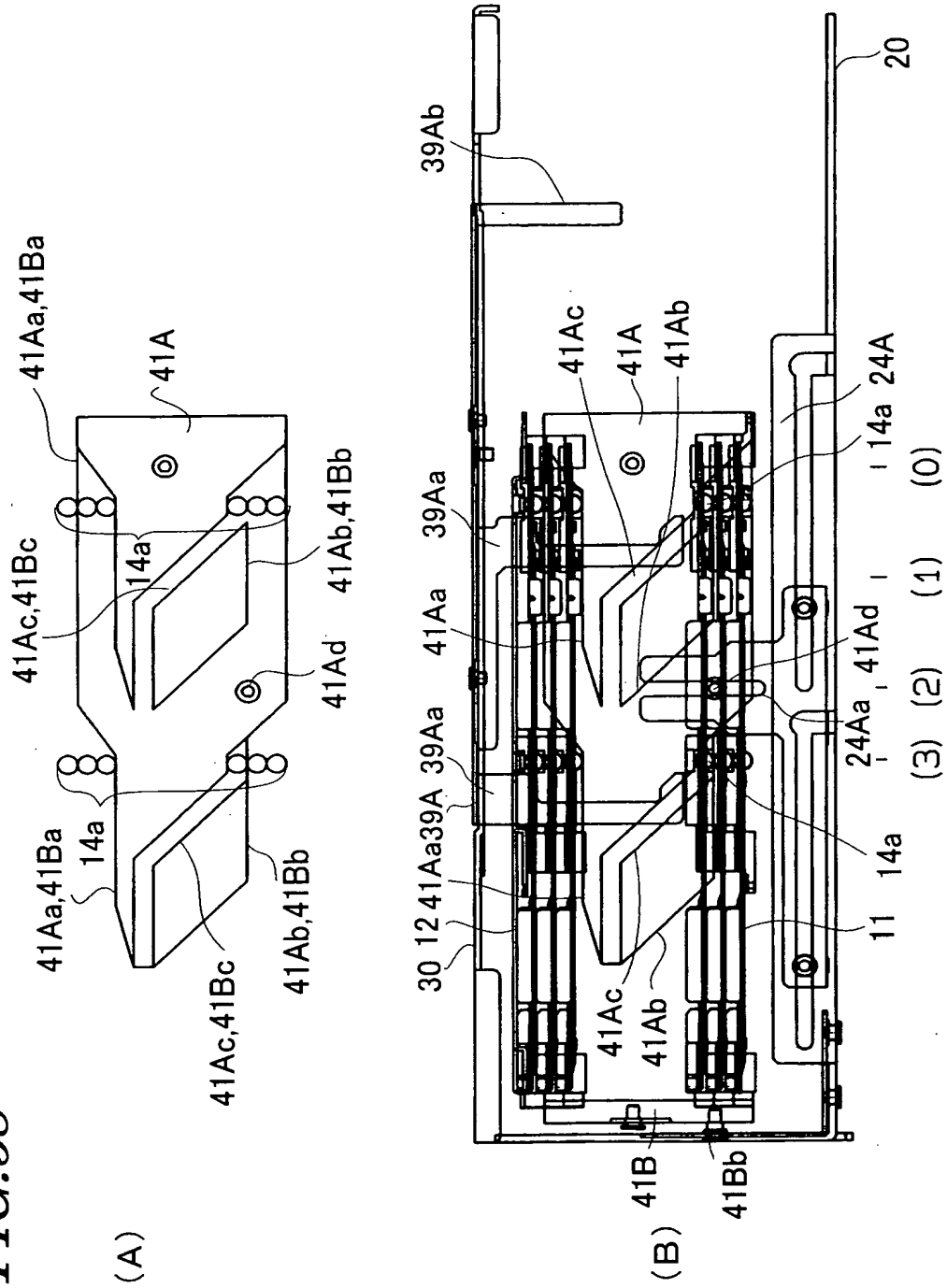


FIG. 59

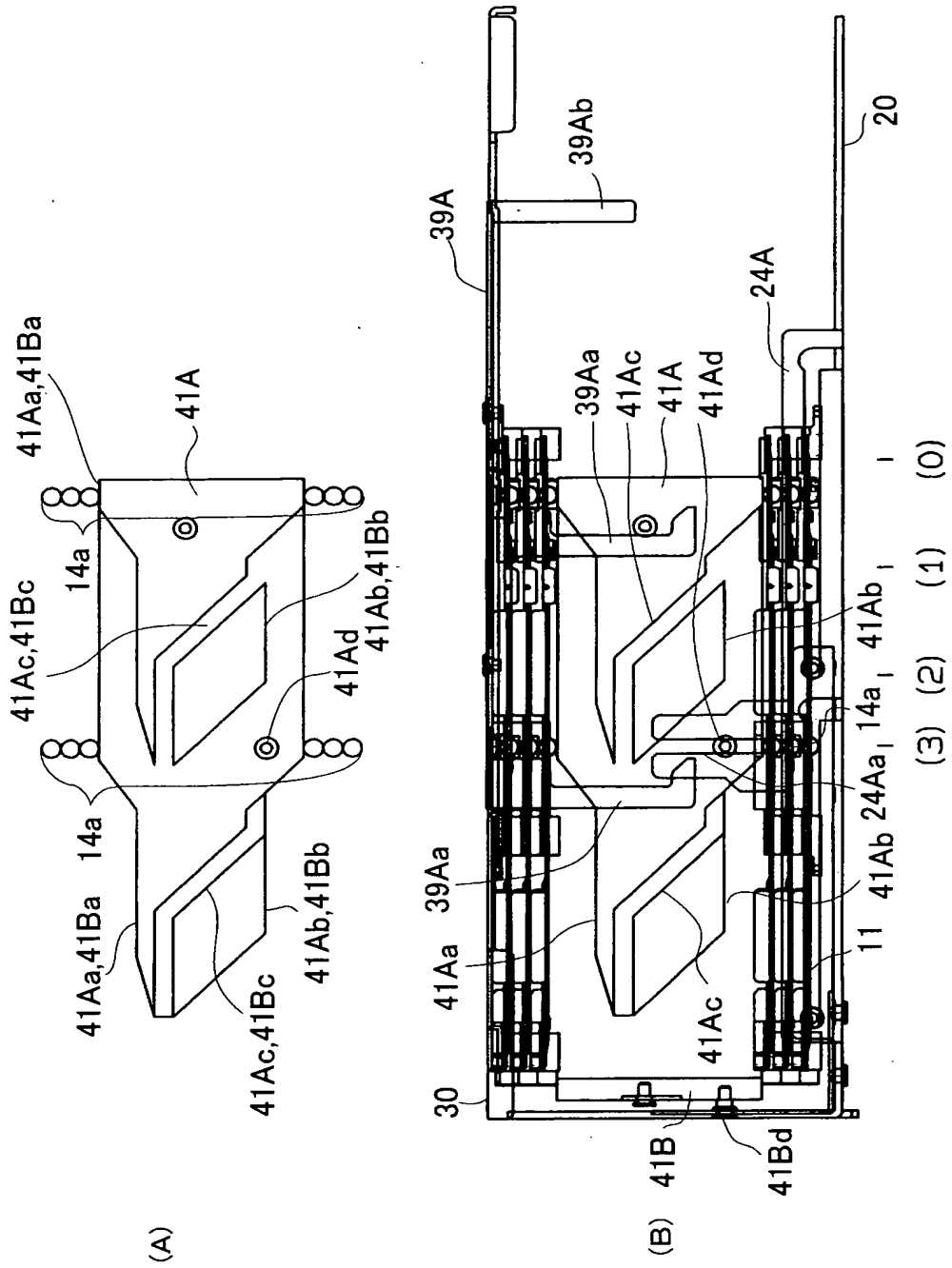


FIG. 60

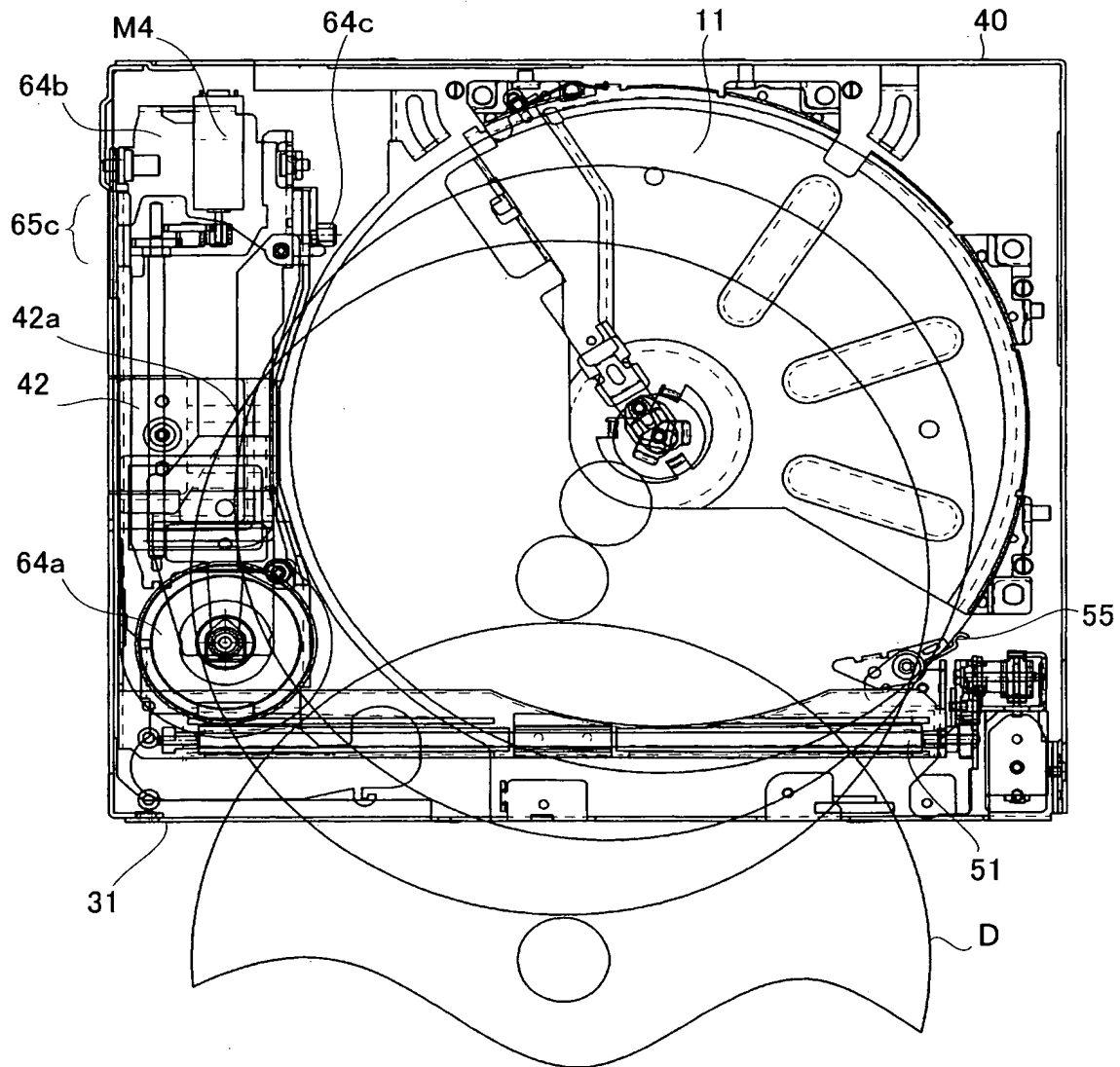


FIG. 61

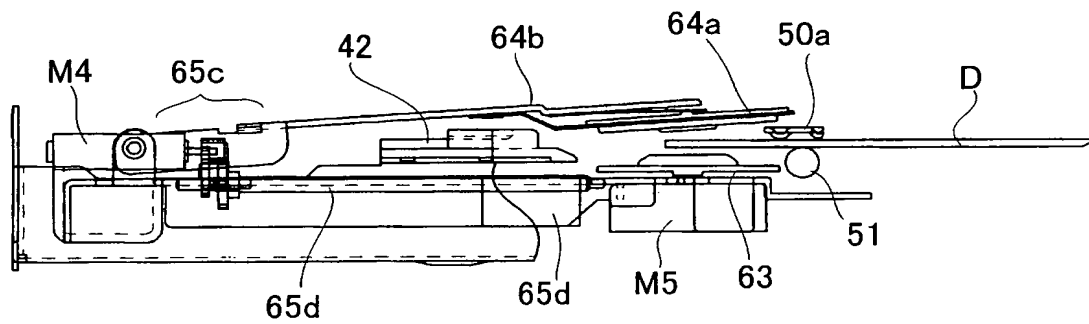


FIG. 62

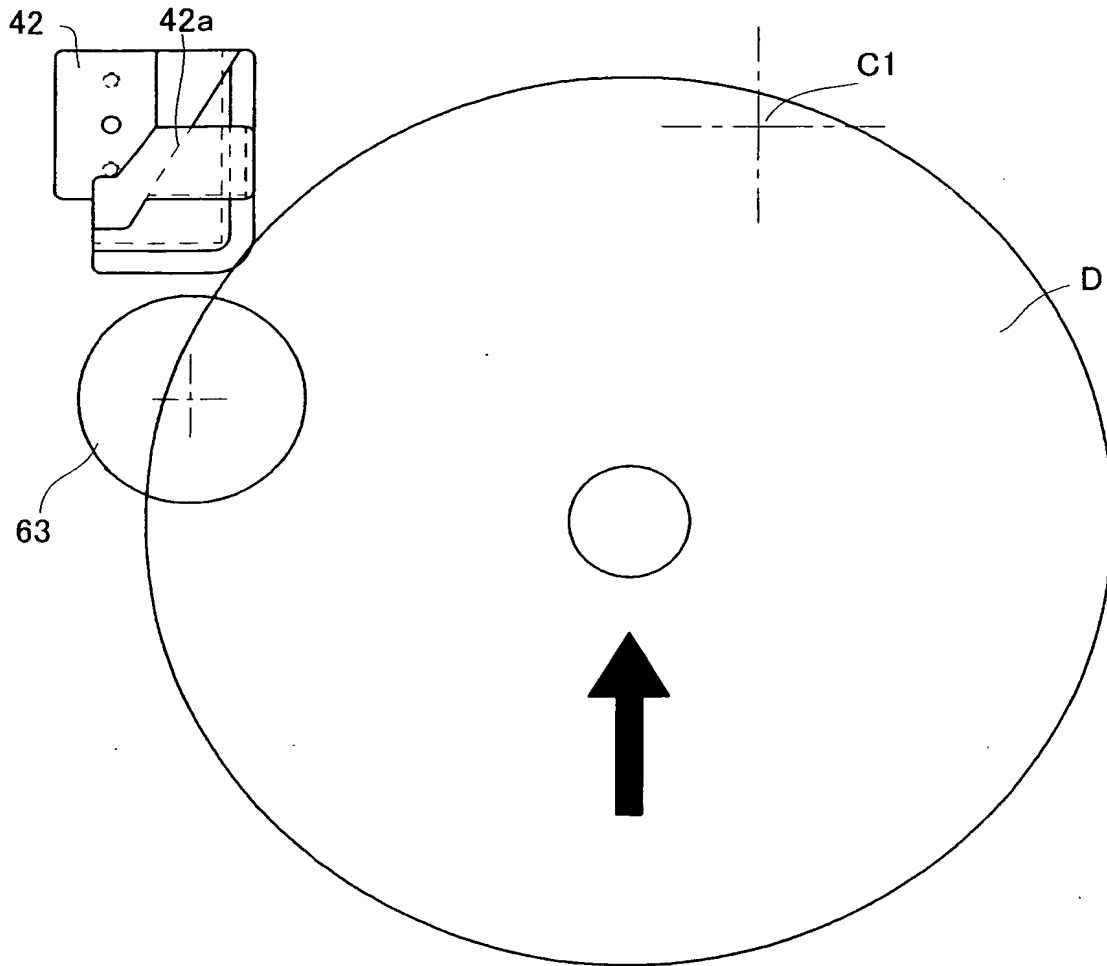


FIG. 63

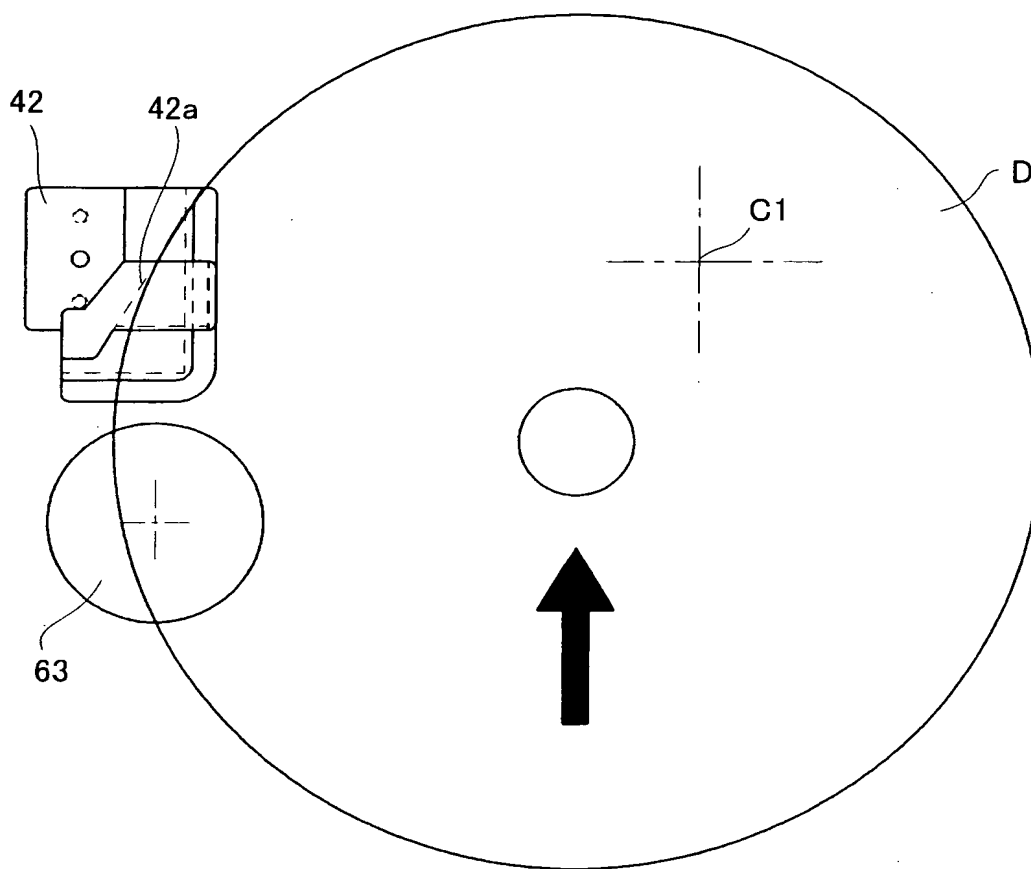


FIG. 64

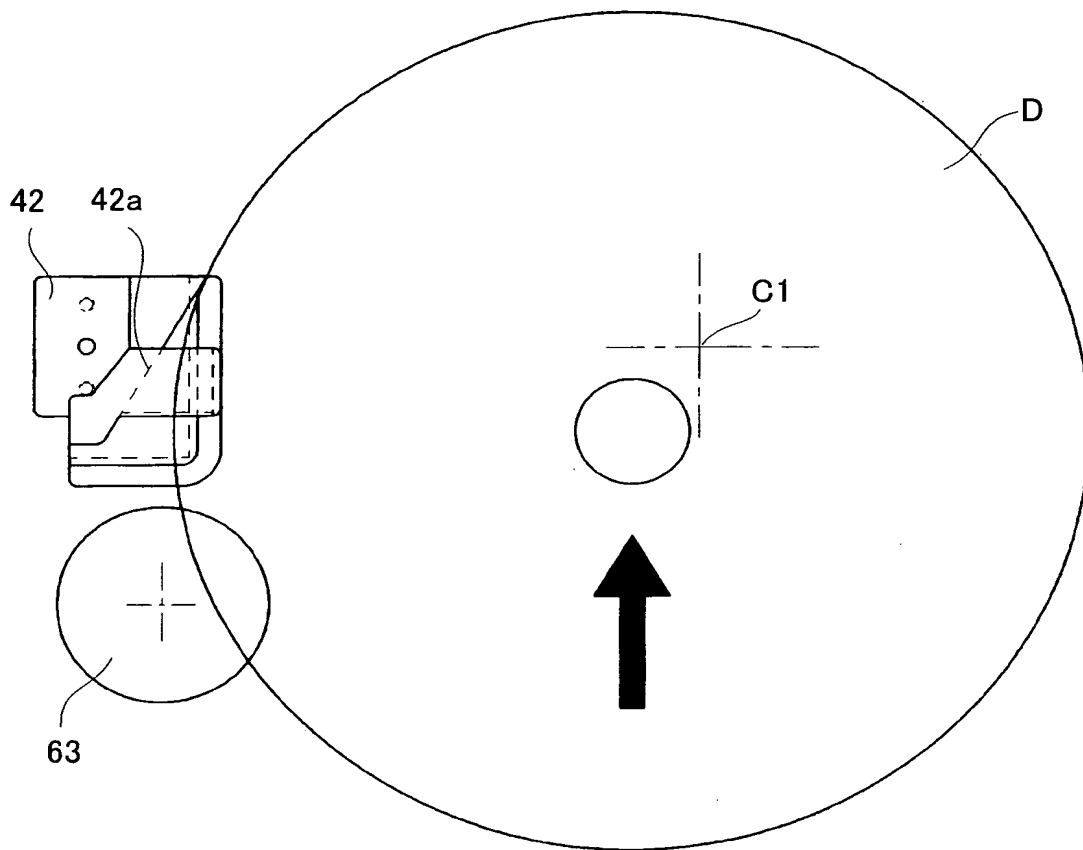


FIG. 65

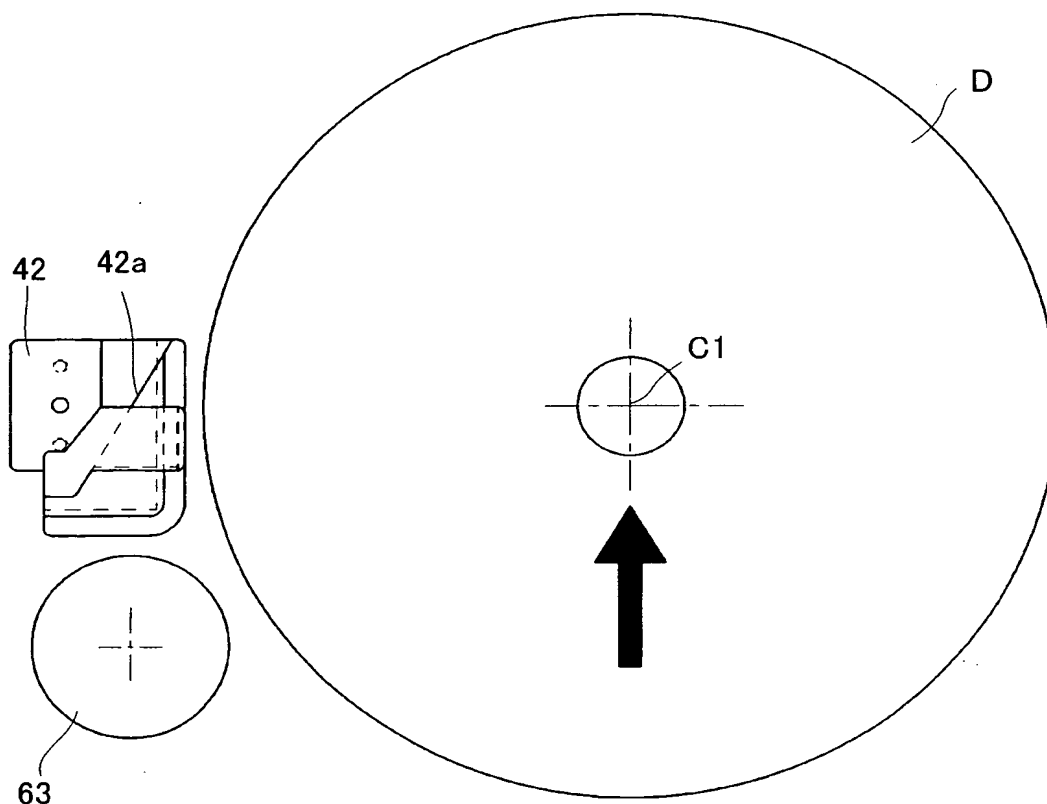
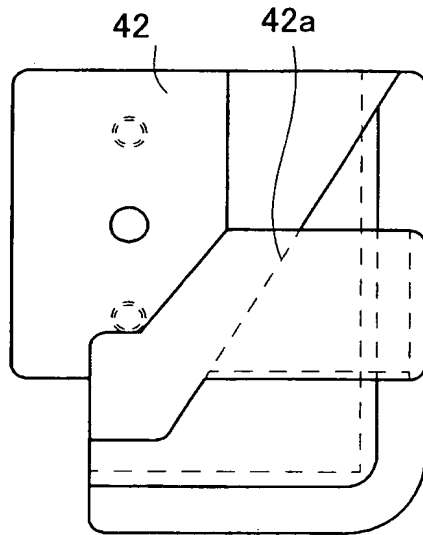
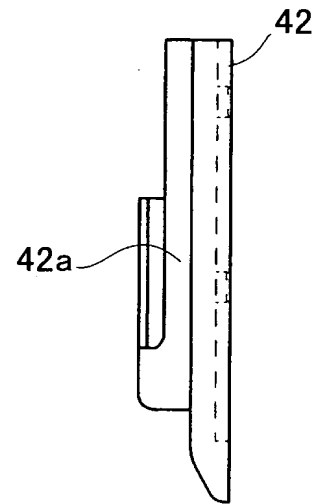


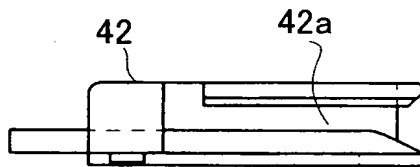
FIG. 66



(A)



(C)



(B)

FIG. 67

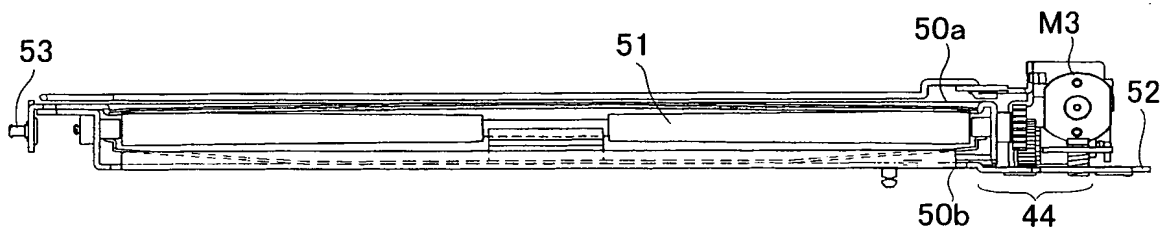


FIG. 68

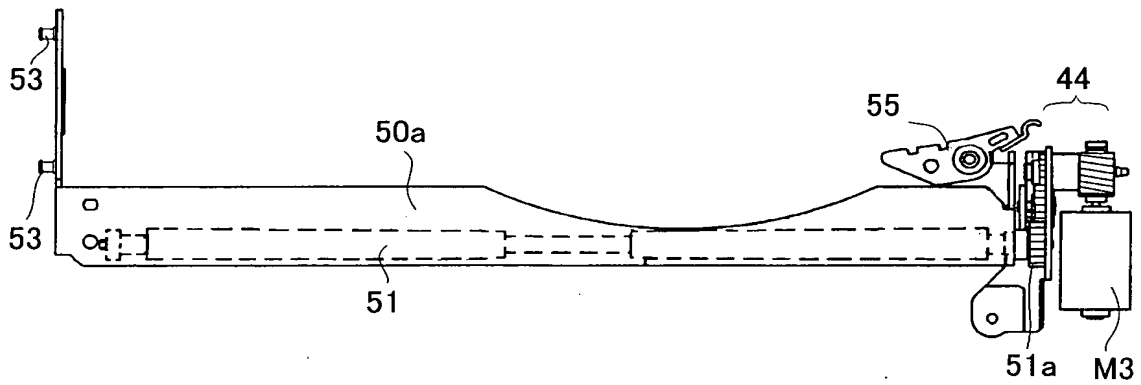


FIG. 69

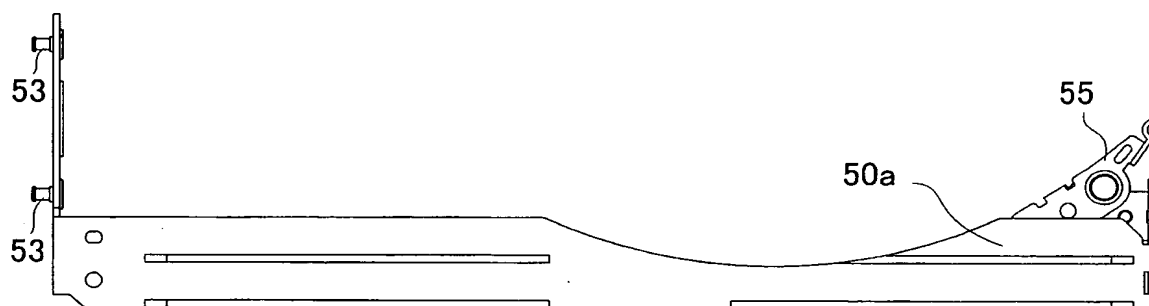


FIG. 70

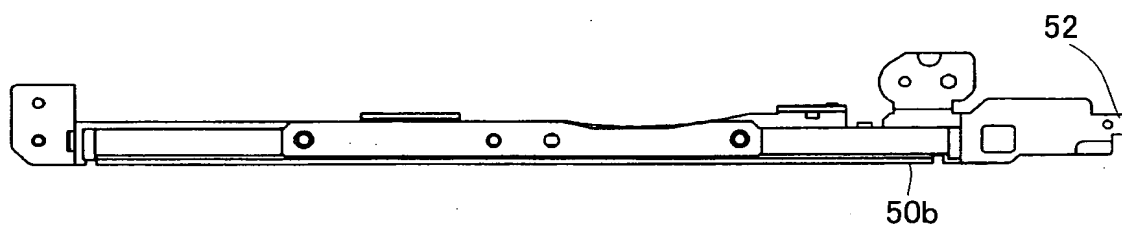


FIG. 71

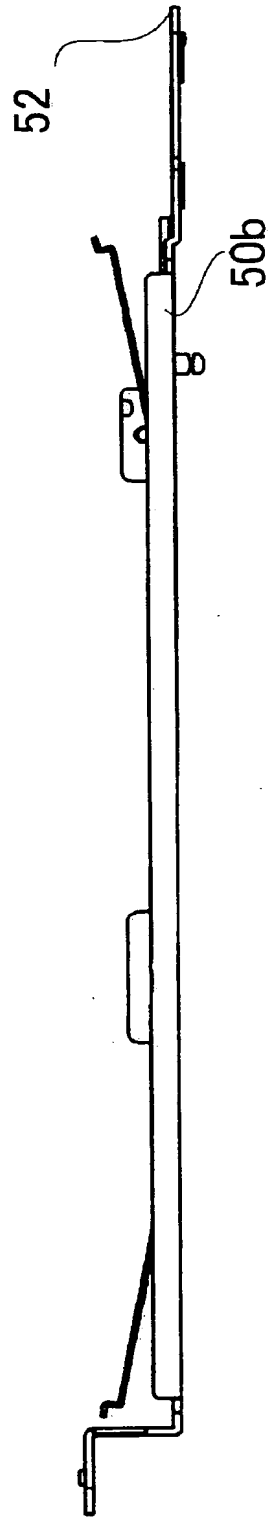


FIG. 72

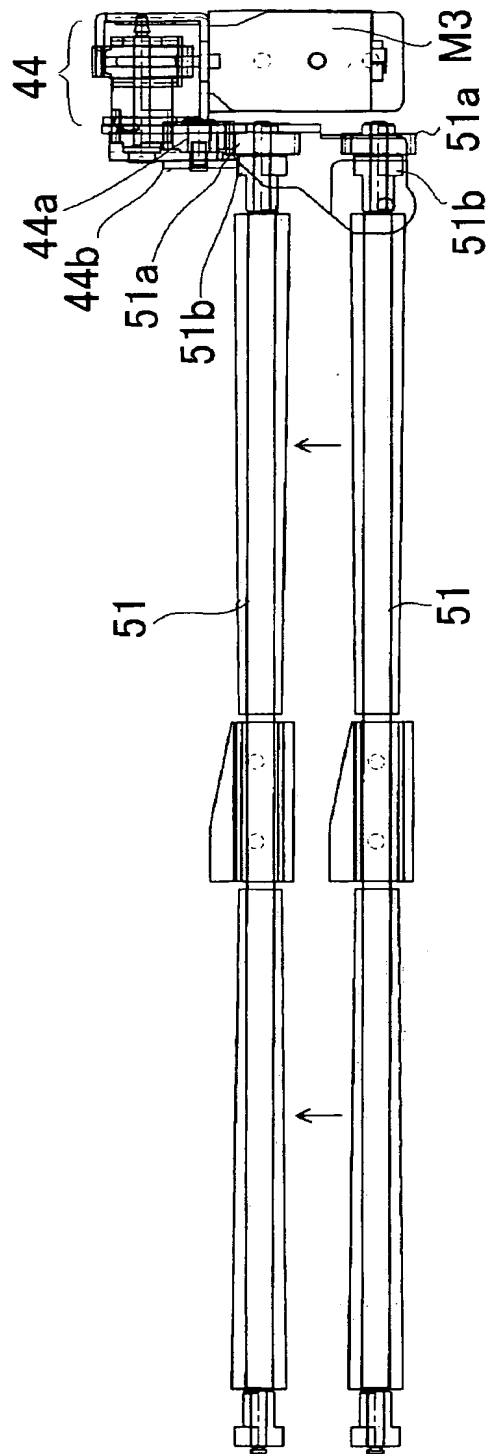


FIG. 73

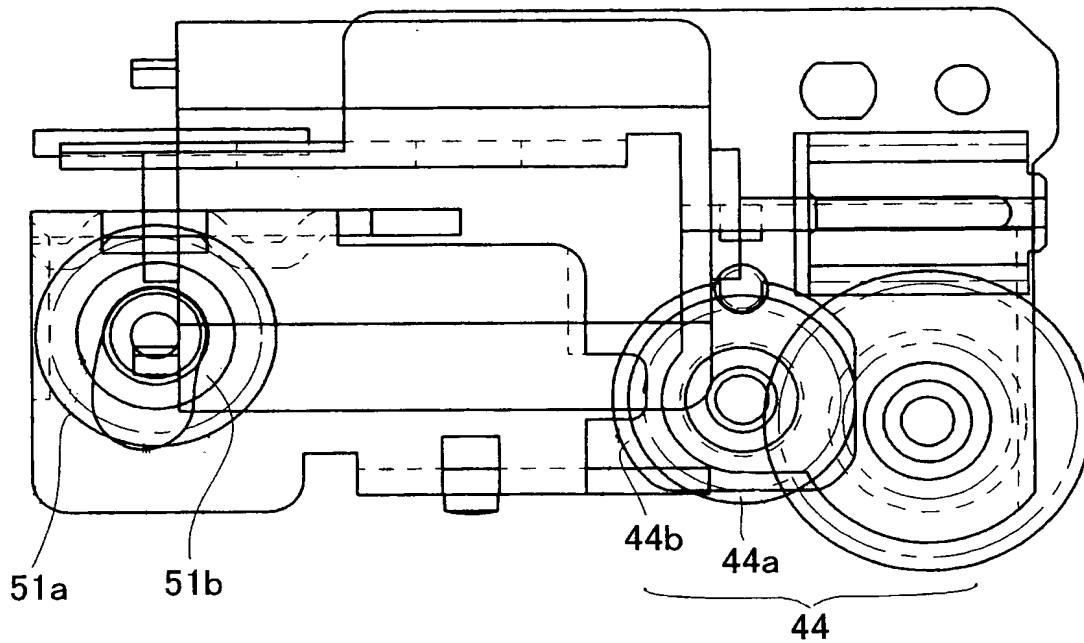


FIG. 74

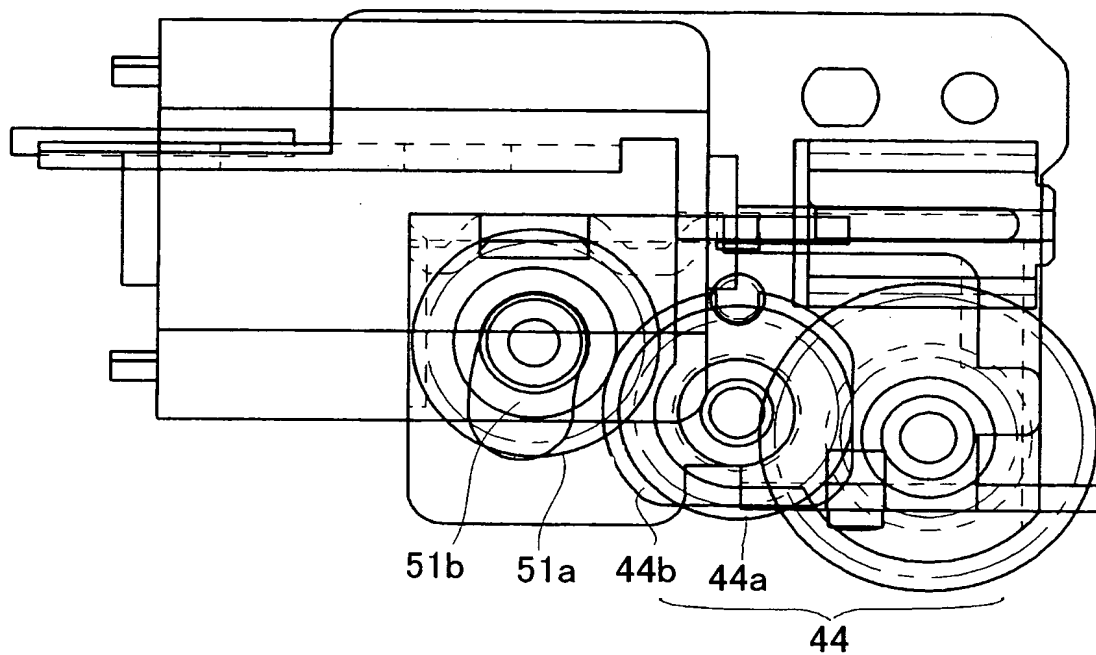


FIG. 75

62

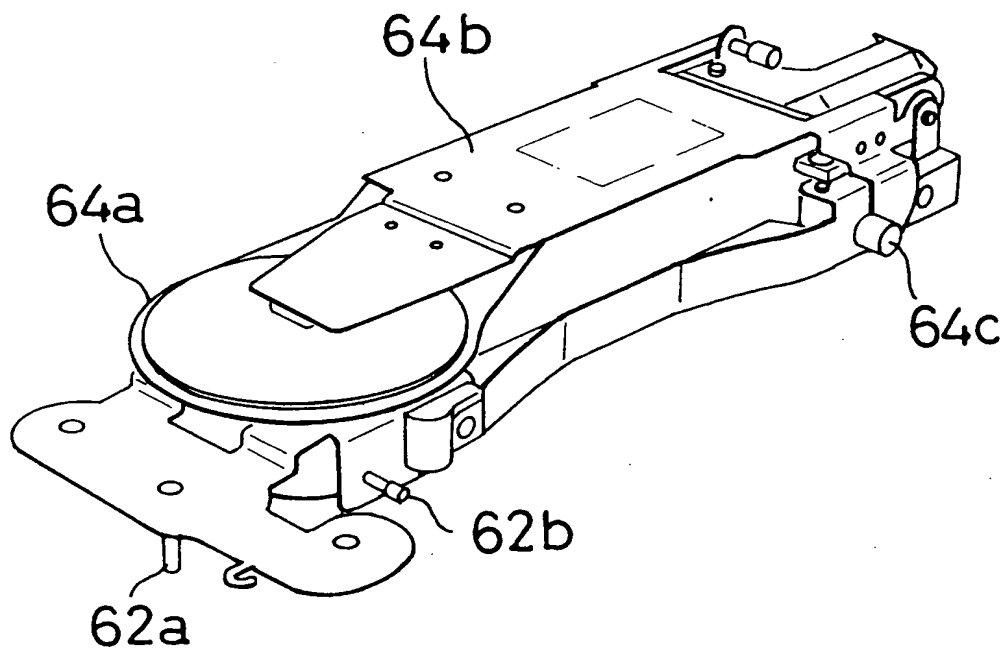


FIG. 76

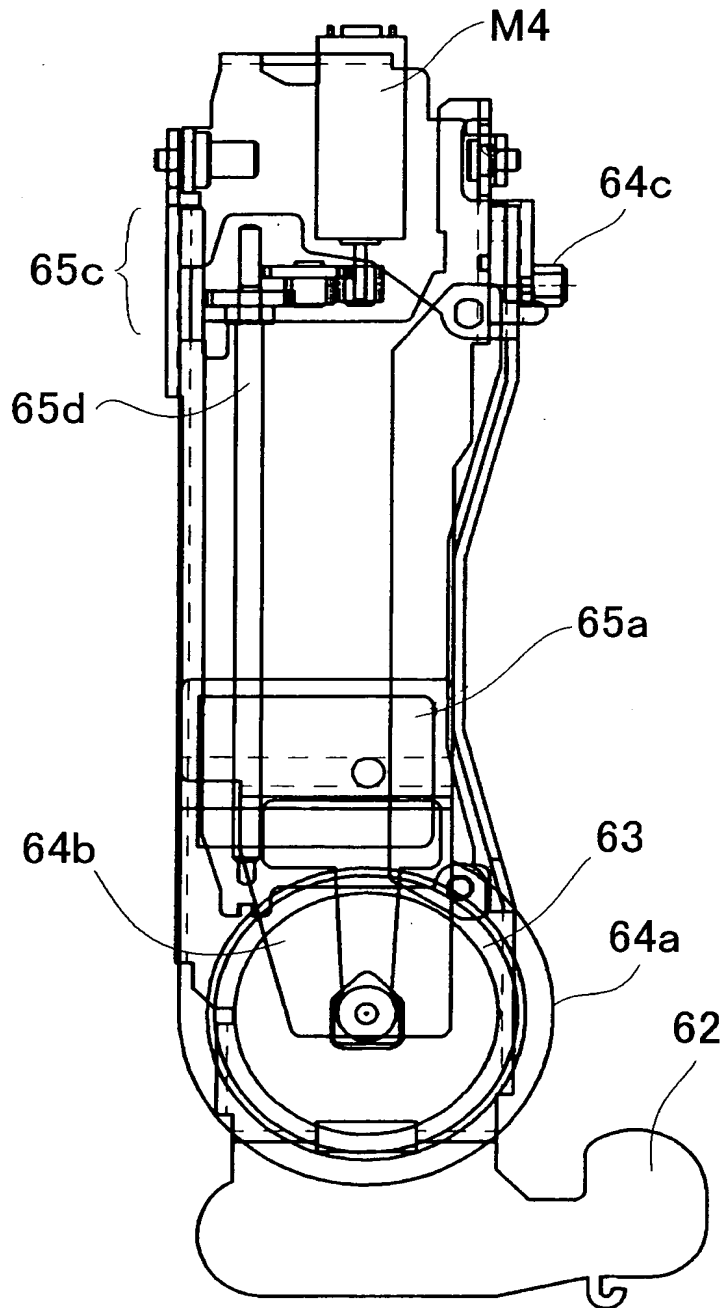


FIG. 77

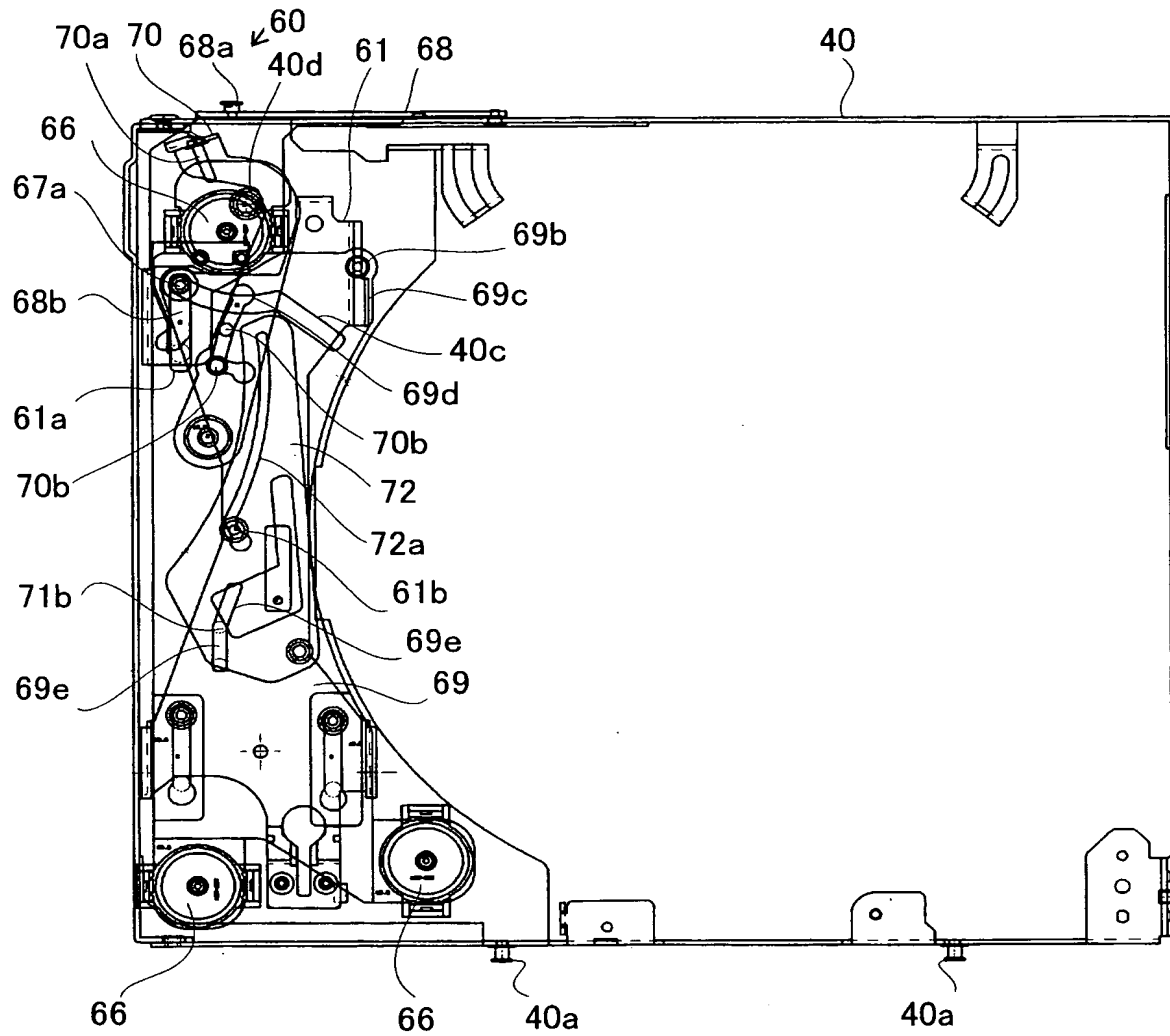


FIG. 78

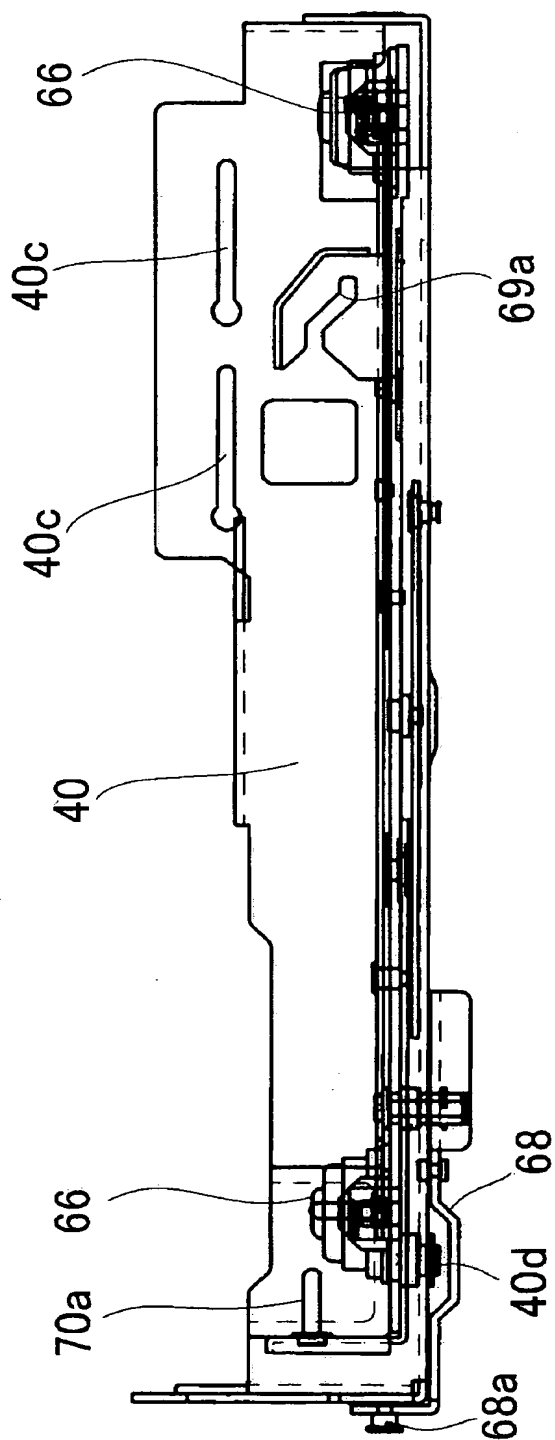


FIG. 79

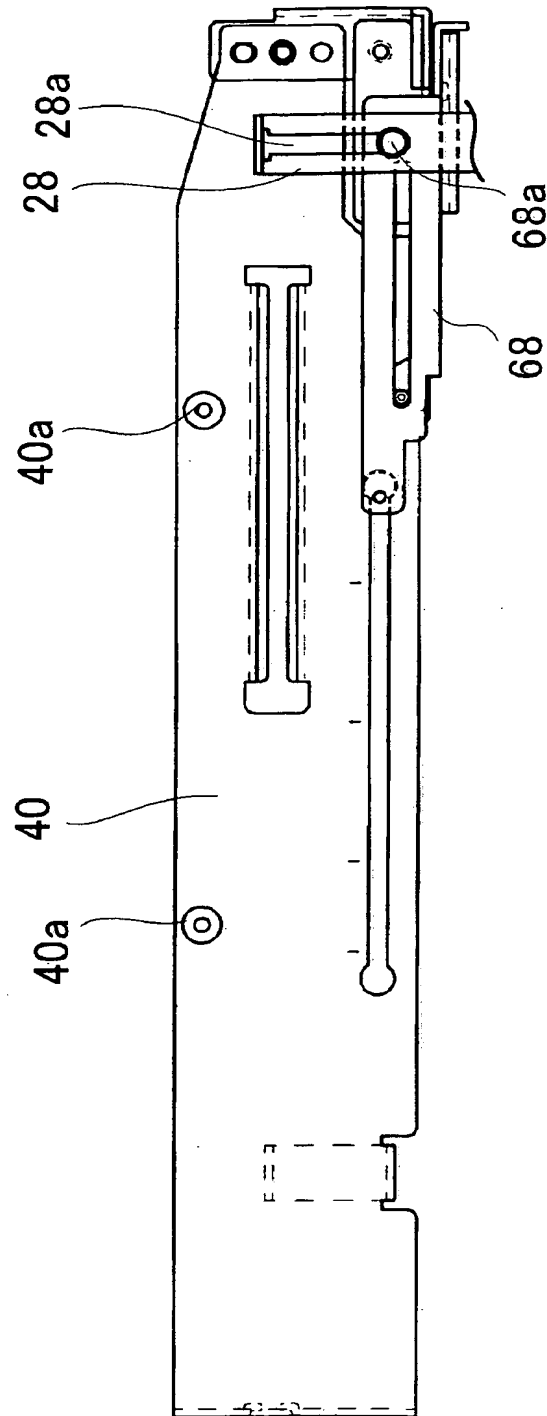


FIG. 80

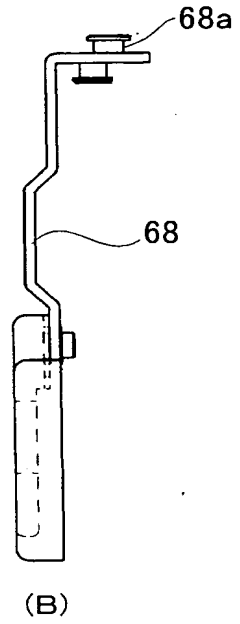
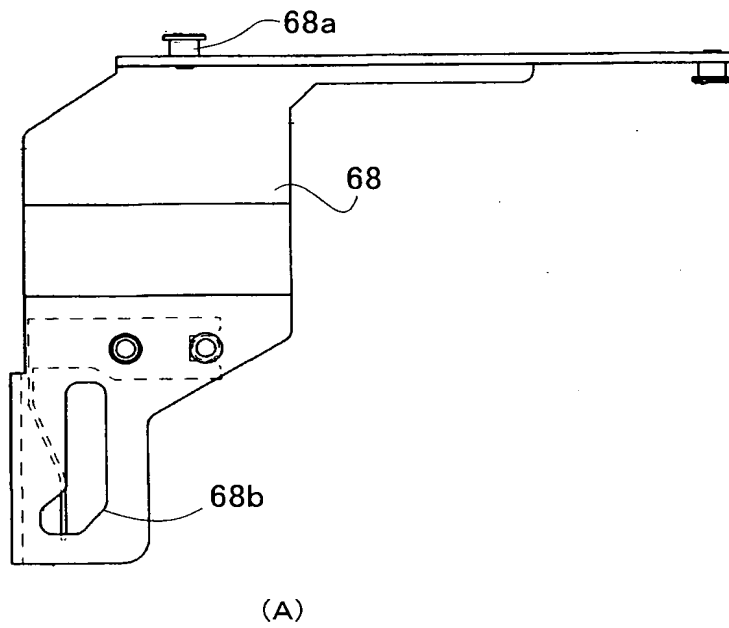


FIG. 81

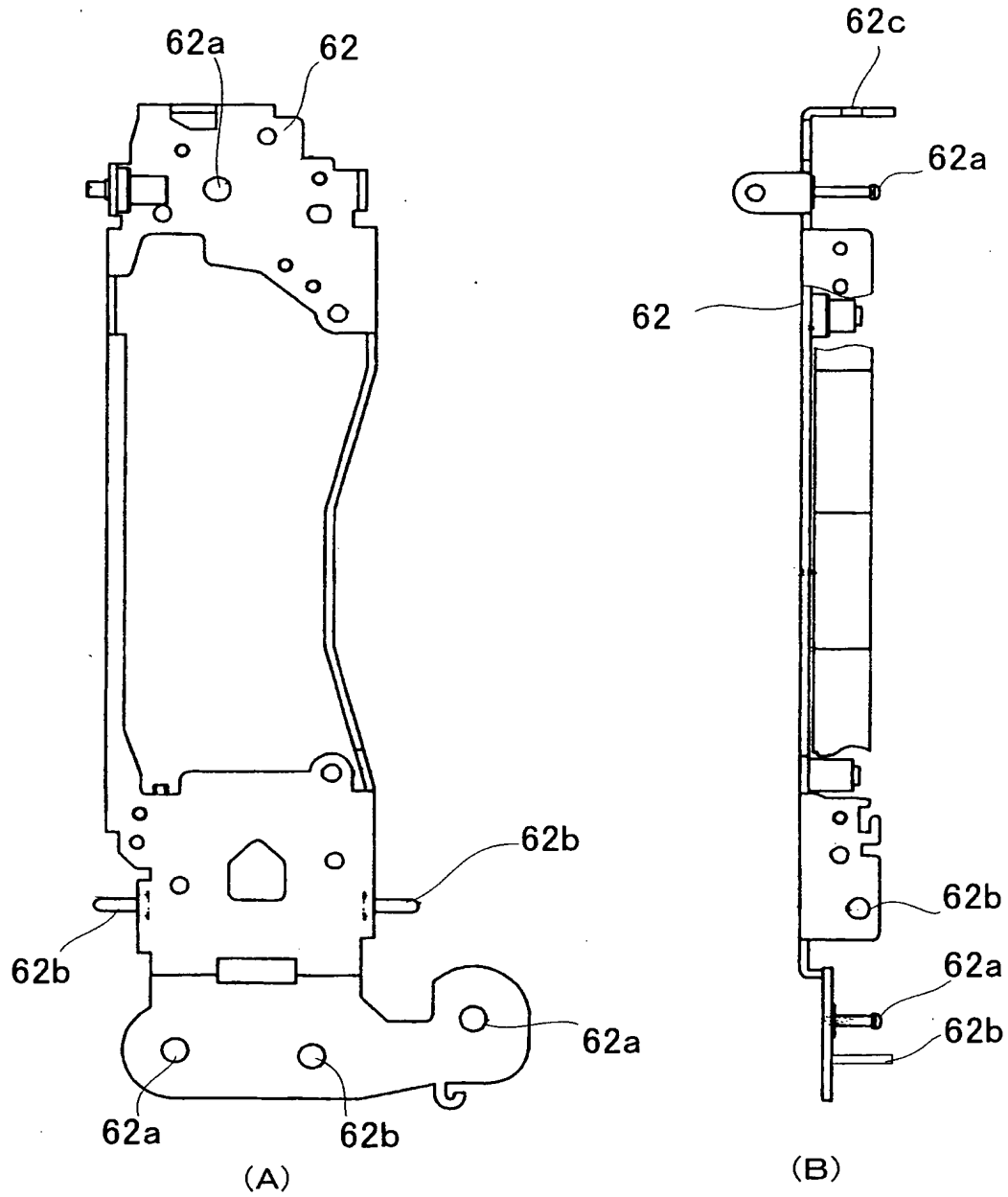


FIG. 82

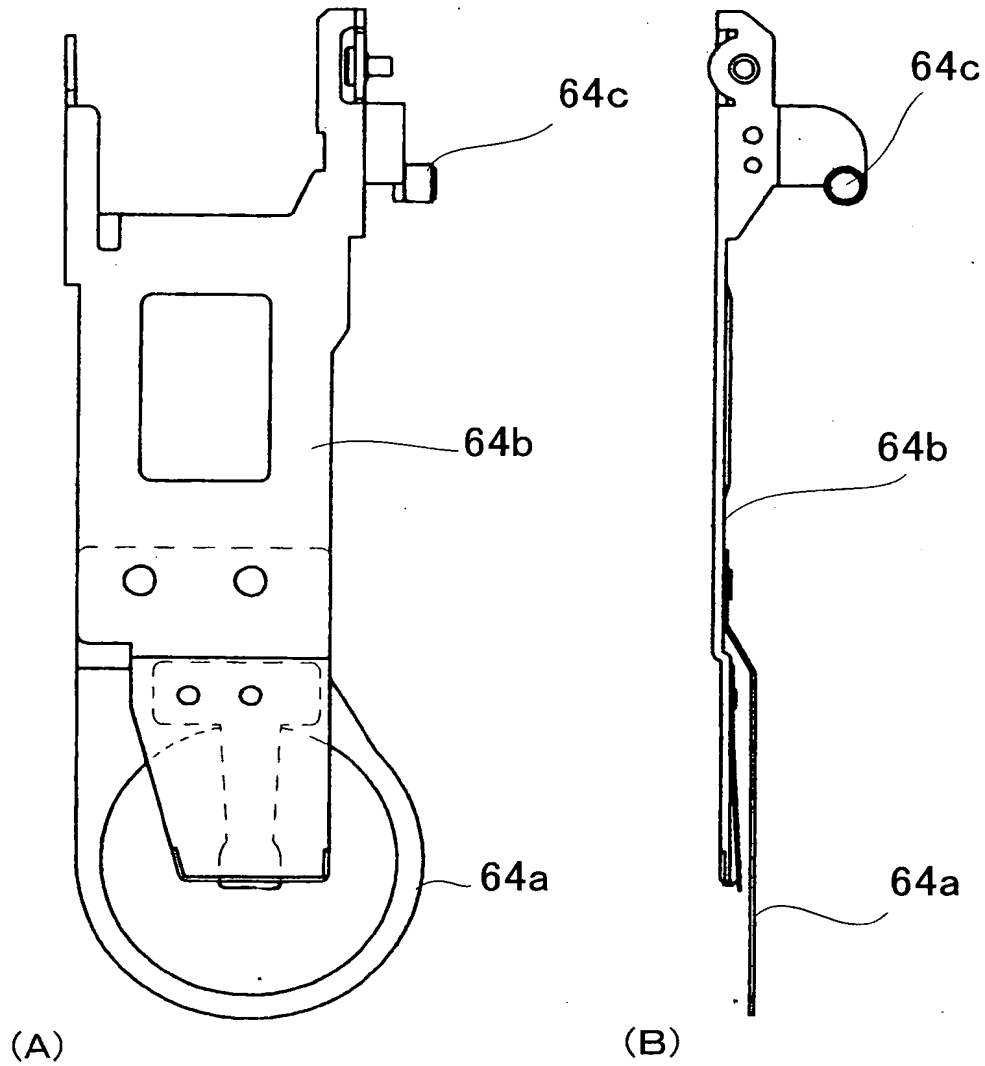


FIG. 83

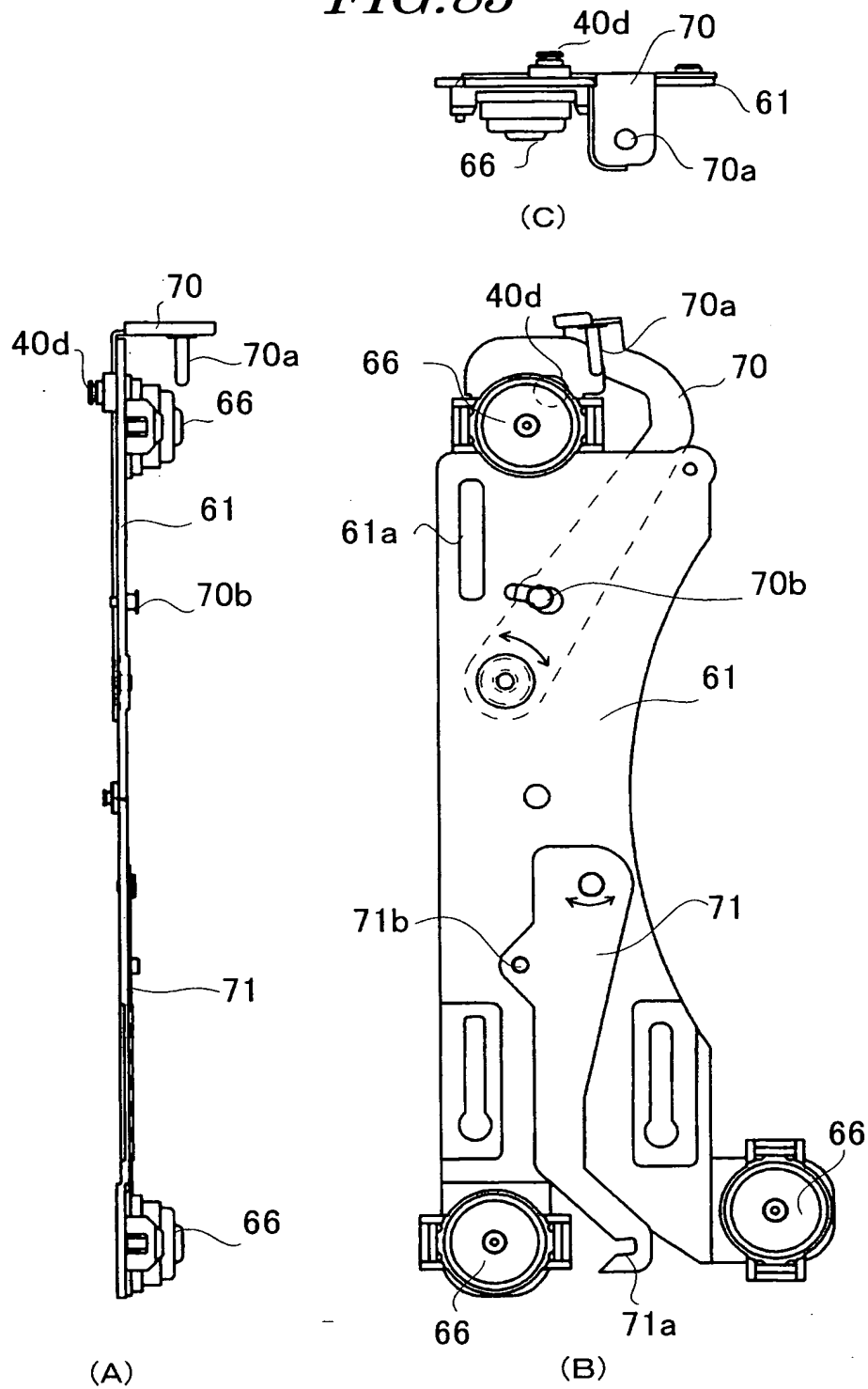


FIG. 84

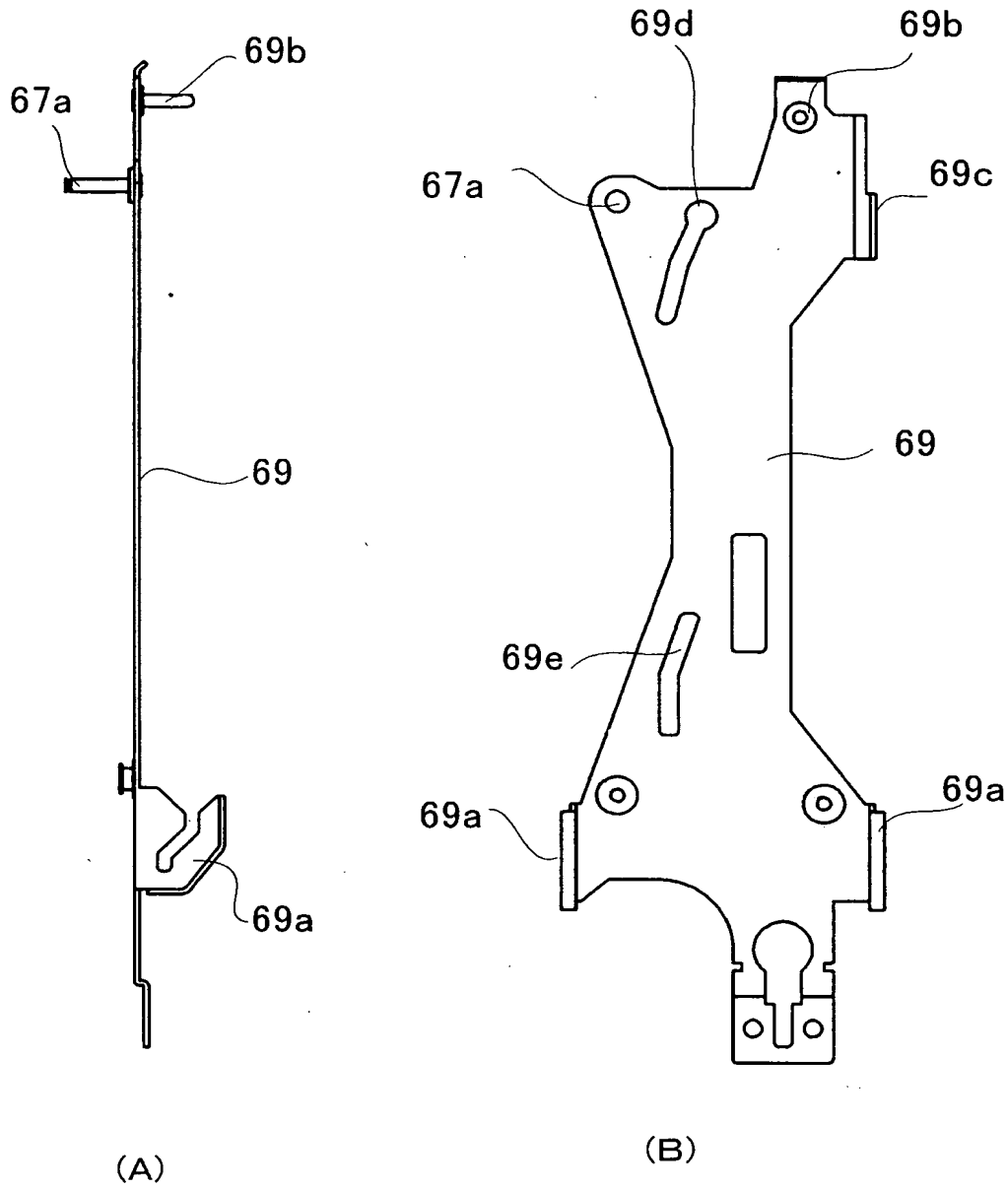


FIG. 85

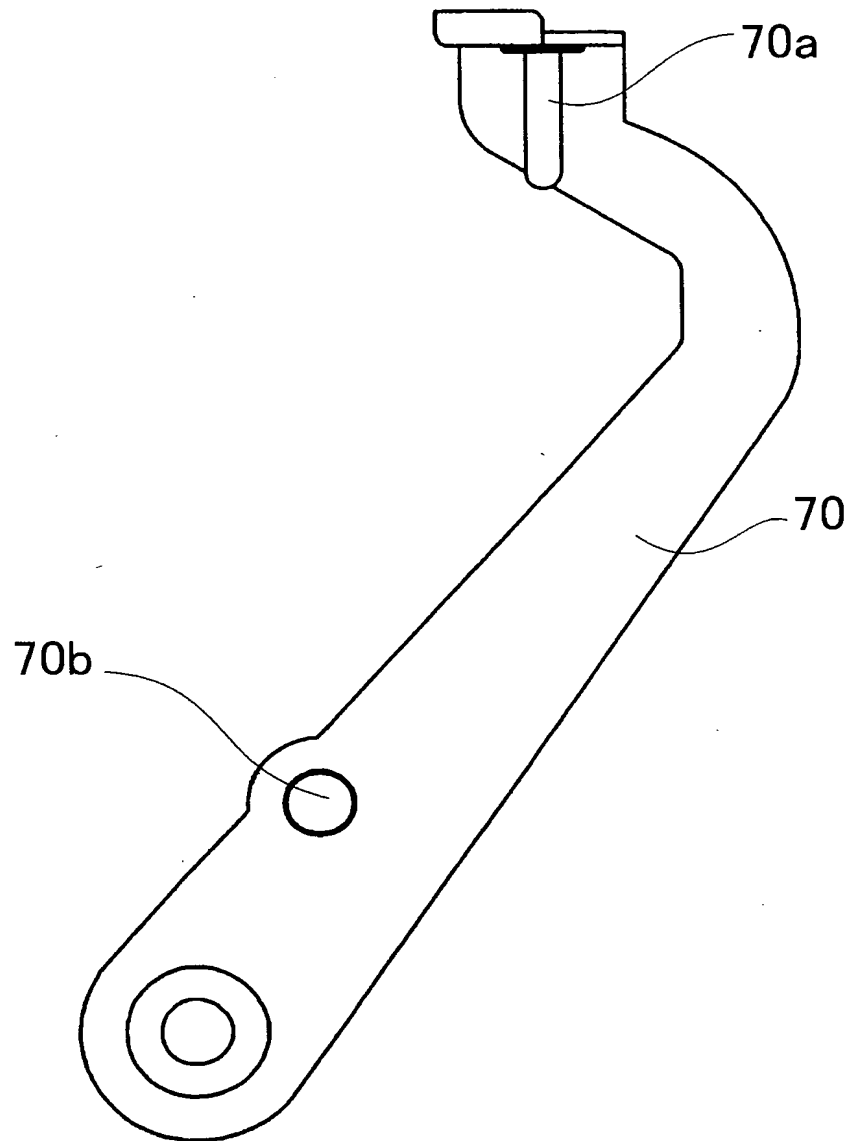


FIG. 86

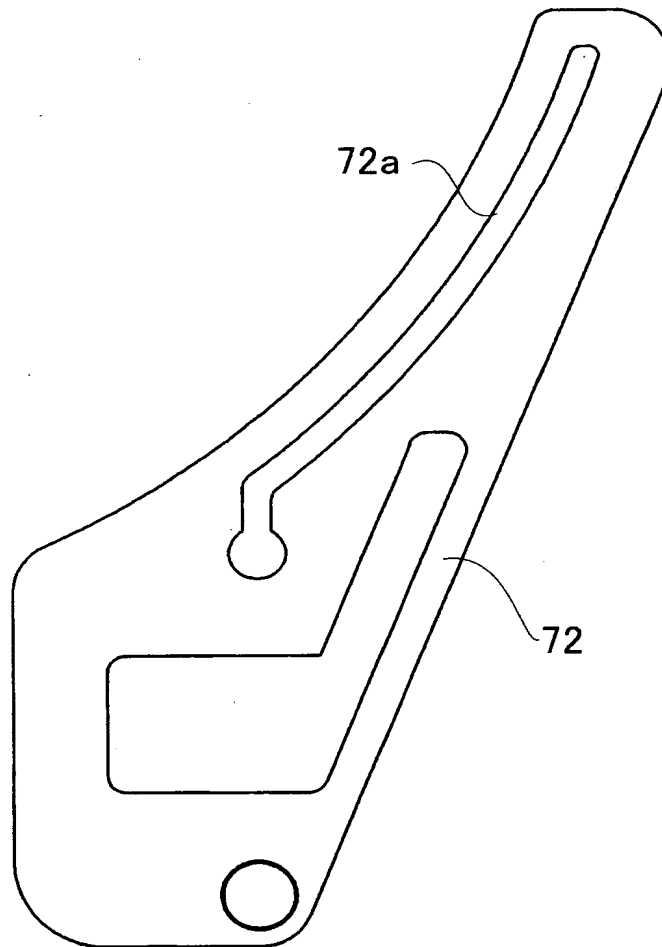


FIG. 87

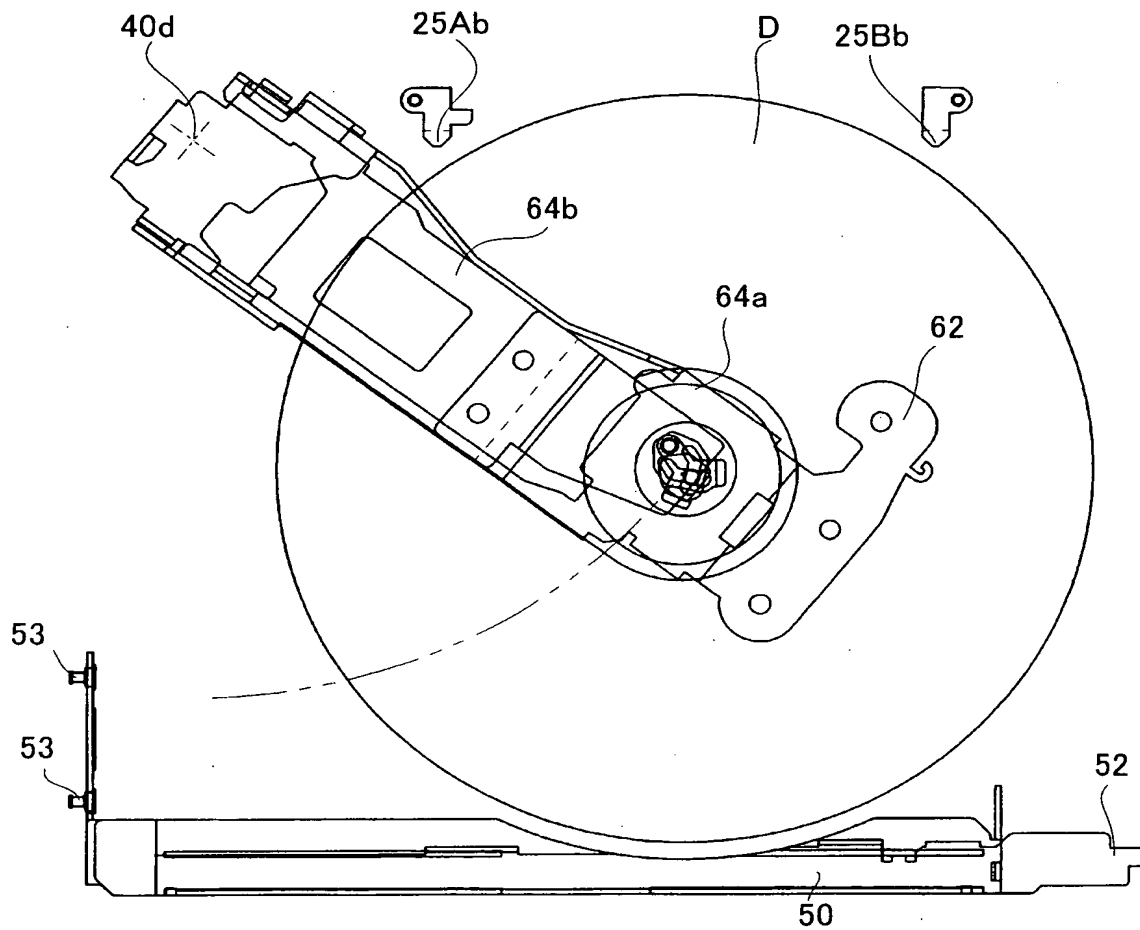


FIG. 88

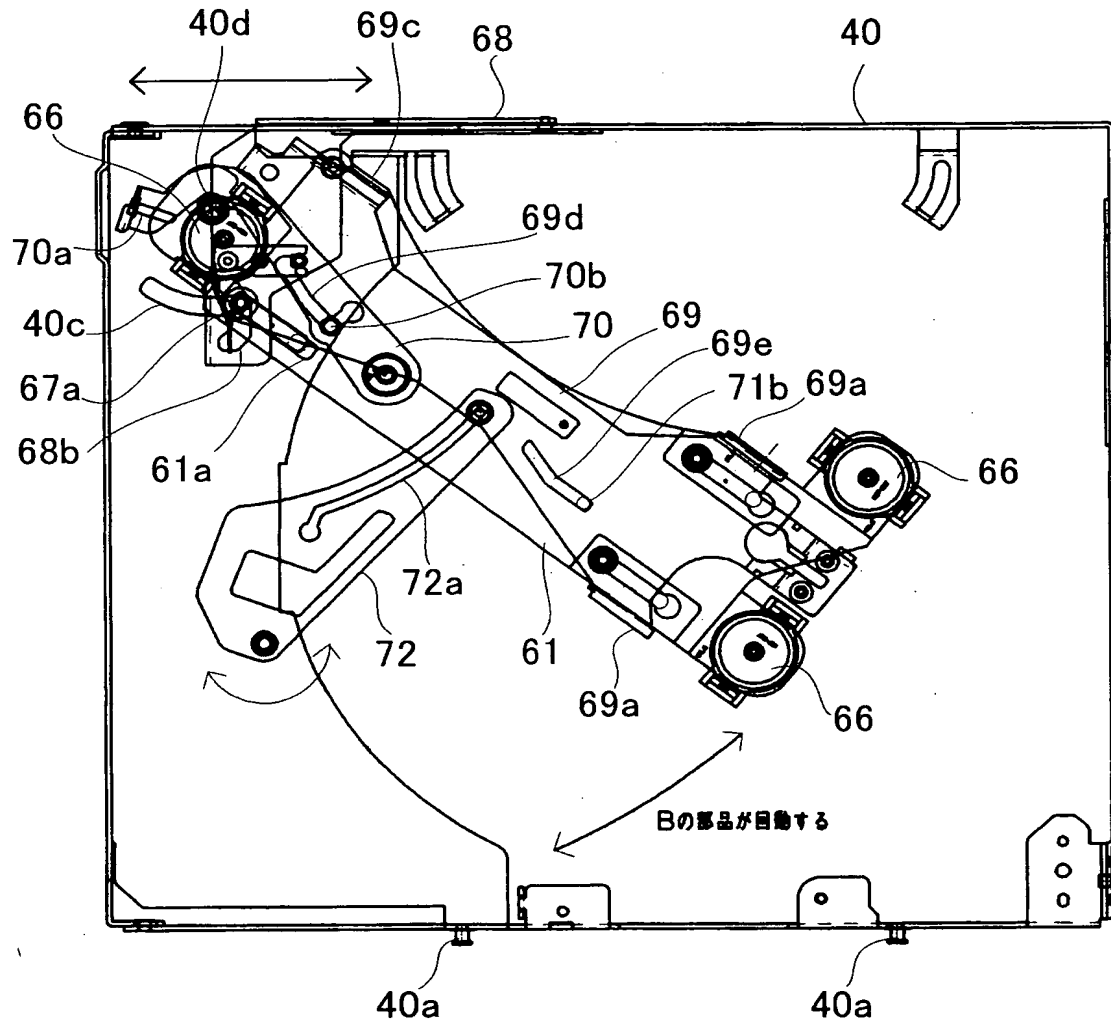


FIG. 89

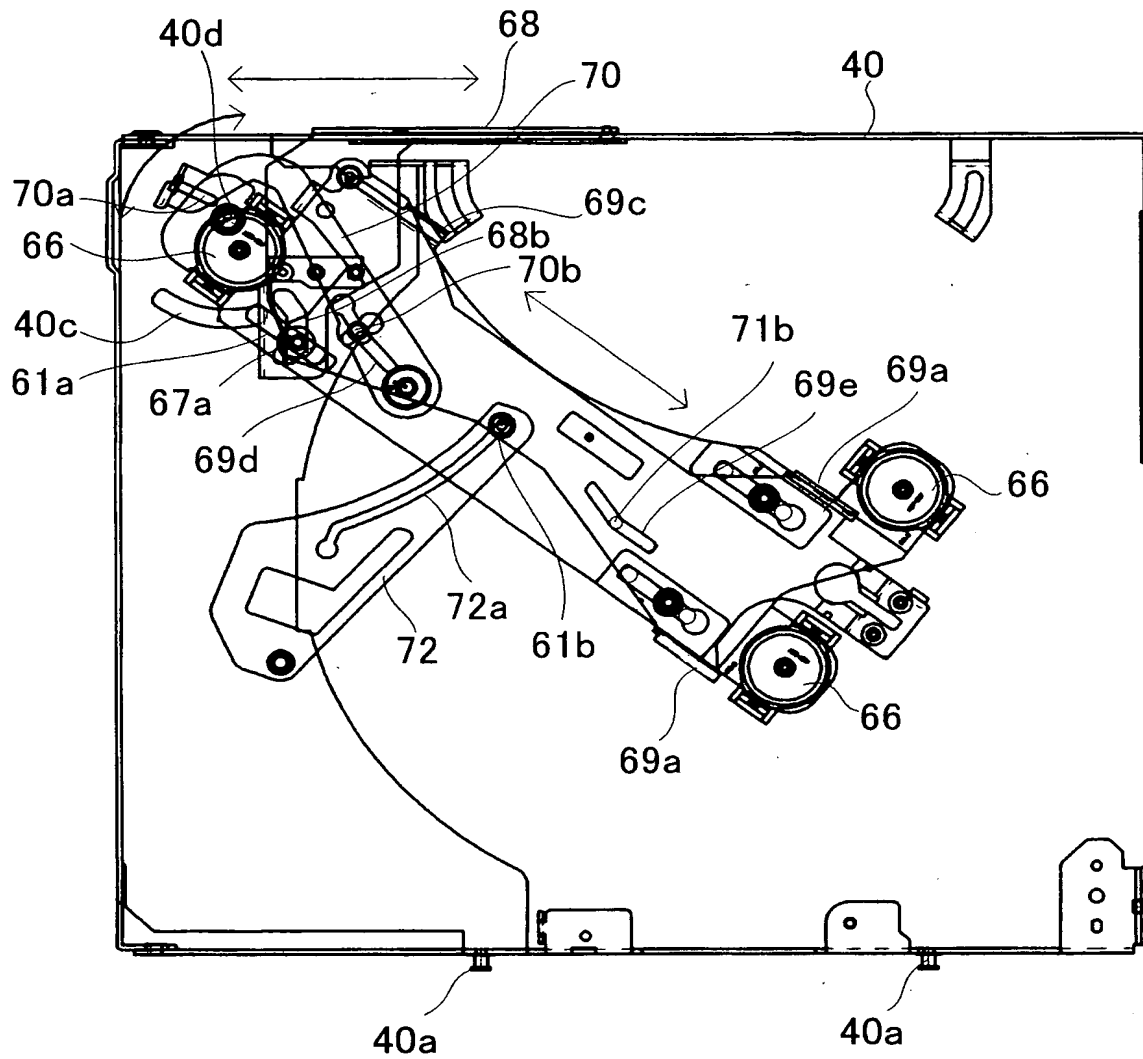


FIG. 90

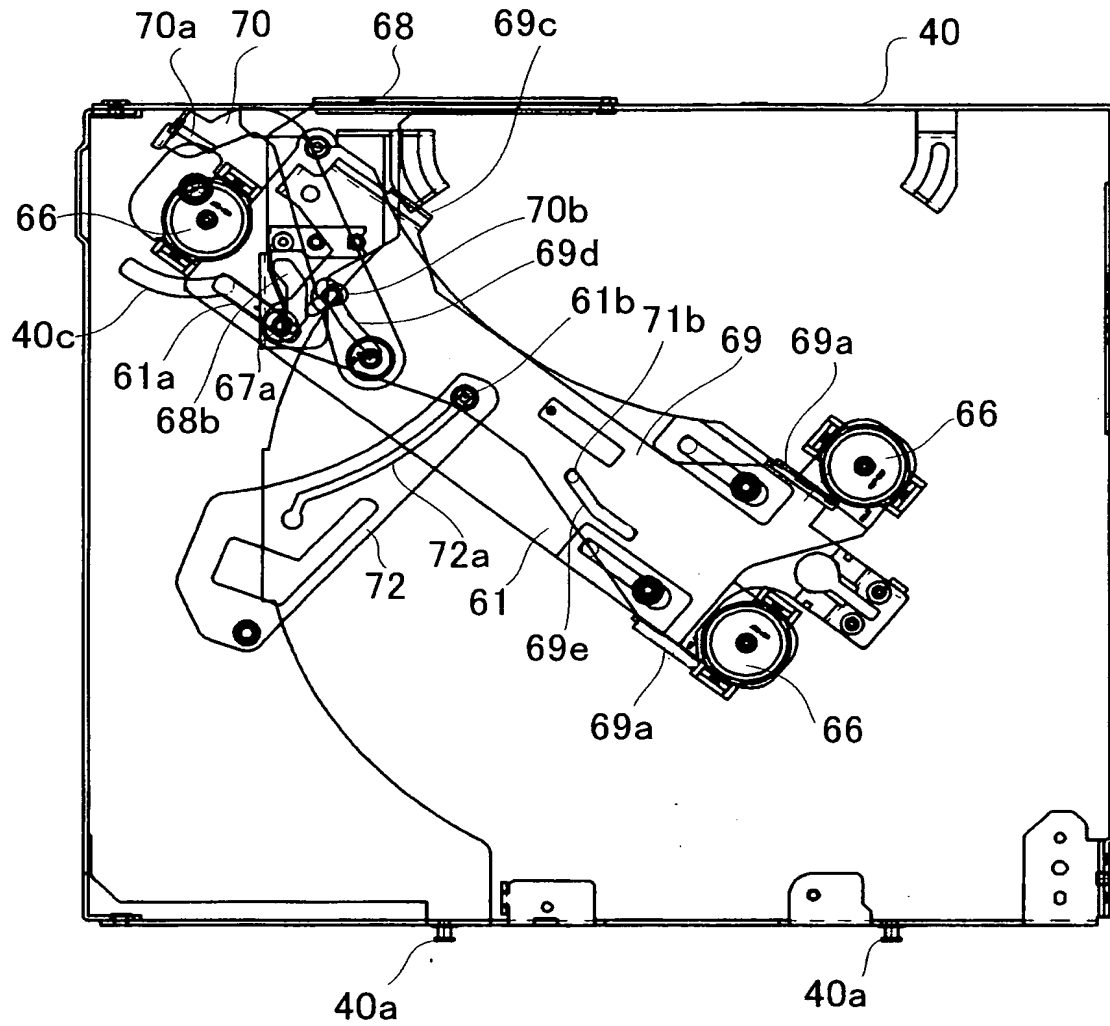


FIG. 91

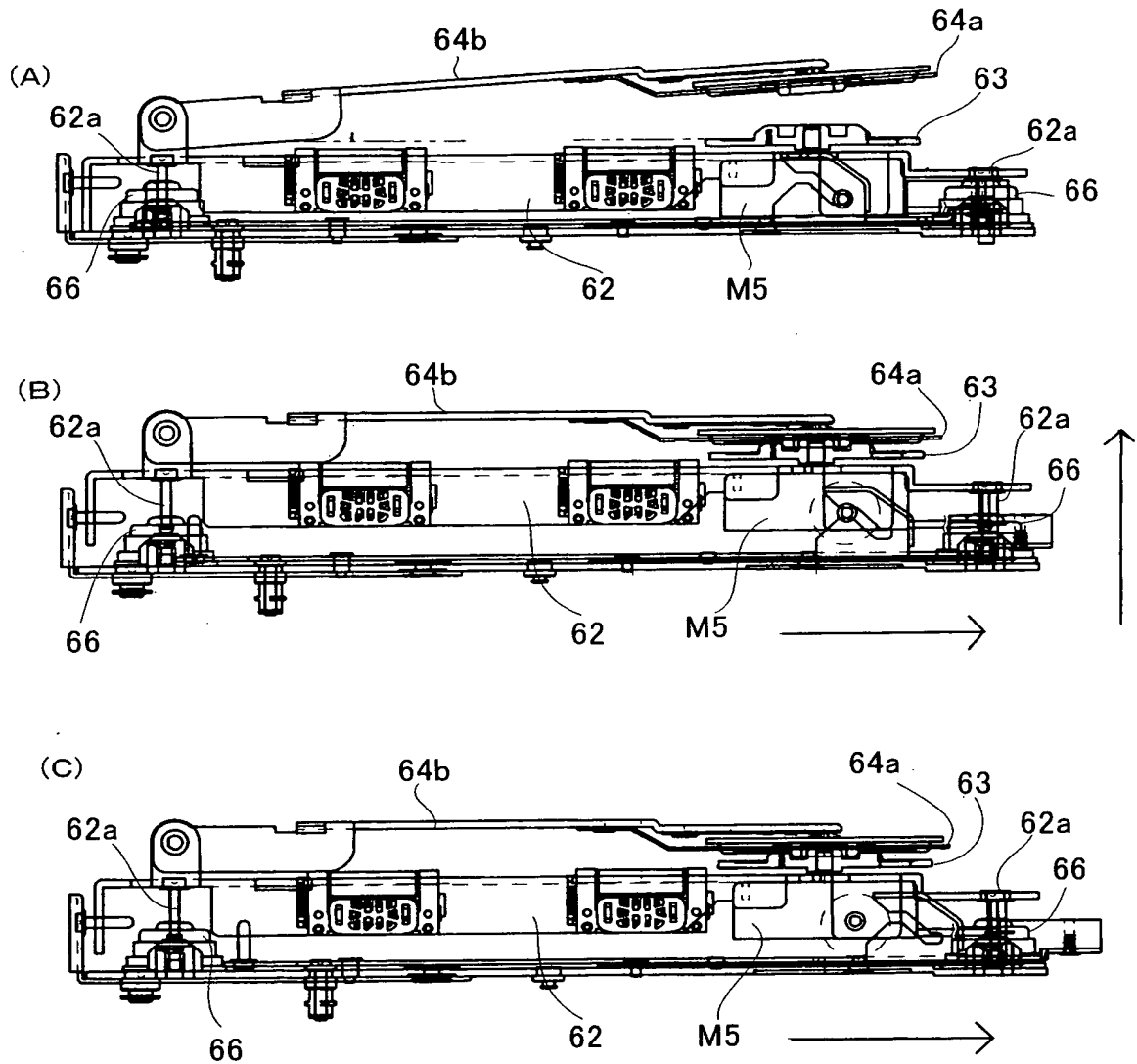


FIG. 92

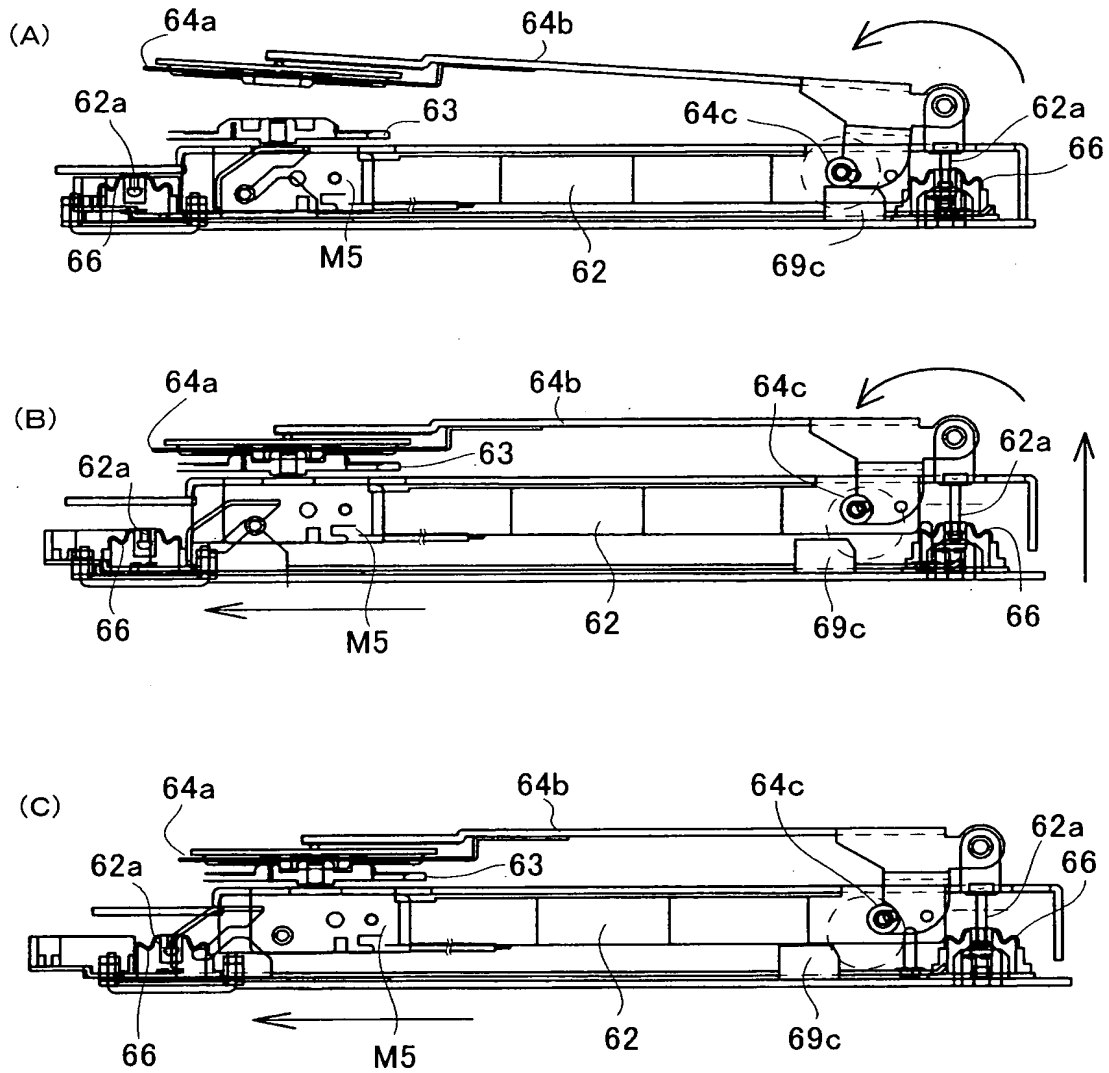


FIG. 93

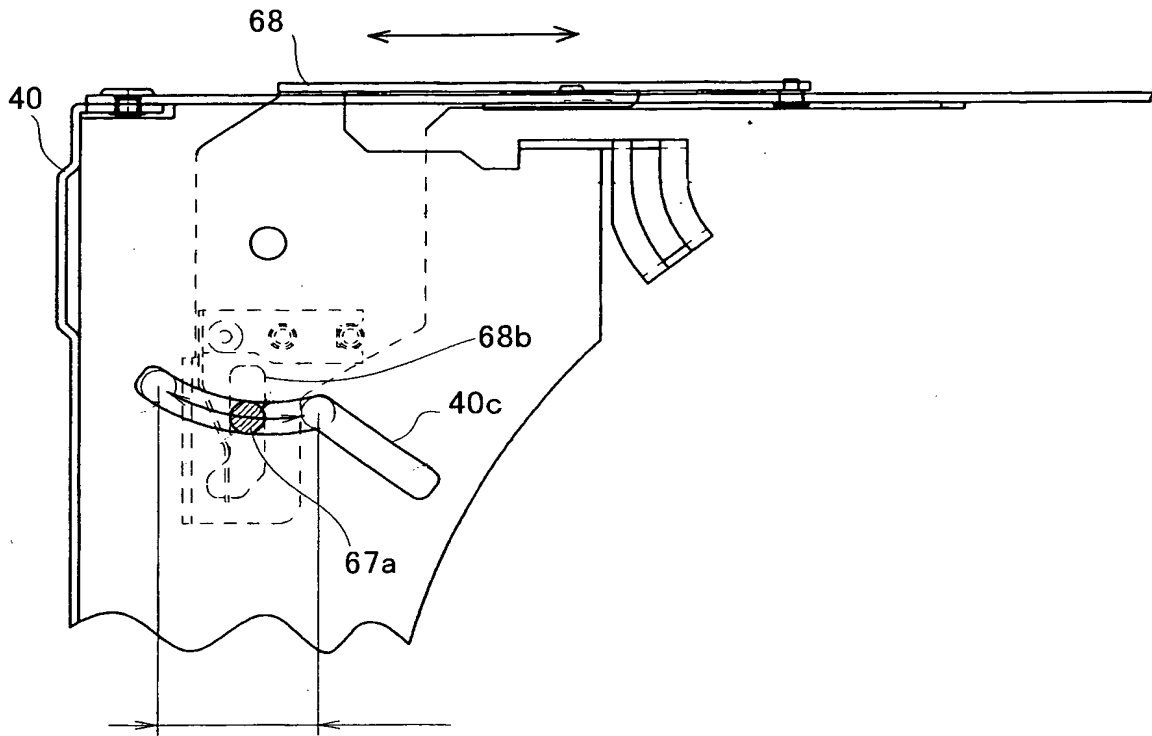


FIG. 94

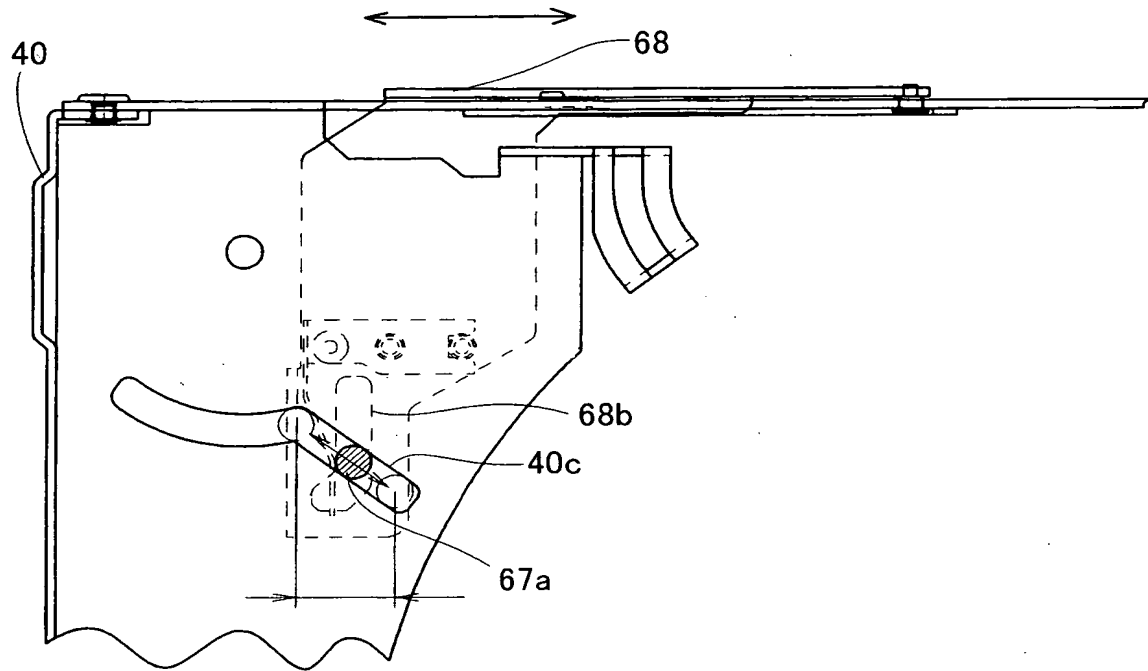


FIG.95

FLOW OF OPERATION DURING DISK LOADING

	OPERATION CONTENT	WORKING MOTOR				
		M1	M2	M3	M4	M5
1	DRIVE CHASSIS UNIT IS MOVED INTO A POSITION PERMITTING THE SELECTION OF A HOLDER PLATE FOR STORING THE LOADED DISK		○			
2	DISK SELECTOR IS MOVED TO OPEN THE HOLDER PLATE TO A WIDTH PERMITTING THE INSERTION OF THE LOADING ROLLER (HOLDER OPEN POSIITON (1)).	○				
3	DRIVE CHASSIS UNIT IS RAISED TO A HEIGHT THAT ALLOWS DISK LOADING		○			
4	LOADING ROLLER IS MOVED TOWARD THE DISK HOLDER TO ENTER A STATE ALLOWING A DISK TO BE HELD	○				
	SHUTTER IS OPENED					
4	CATCHES OF DISK HOLD LINKS ARE CLOSED AND DISK HOLDER IS OPENED FURTHER SO THAT THE CENTER OF THE HOLDER PLATE DOES NOT OBSTRUCT THE DISK INSERTION PATH (HOLDER OPEN POSITION (2)).					
5	DISK IS DETECTED BY SENSOR AND LOADING ROLLER IS ROTATED IN THE LOADING DIRECTION (FORWARD DIRECTION)			○		
6	THE COMPLETE STORAGE OF THE DISK IN THE DISK HOLDER IS DETECTED AND ROTATION OF THE LOADING ROLLER IS STOPPED					
7	SHUTTER IS CLOSED AND DISK IS HELD ON HOLDER PLATE	○				
8	DRIVE CHASSIS UNIT IS MOVED SO THAT THE HOLDER PLATE IS AT THE HEIGHT OF THE INITIAL POSITION		○			
9	LOADING ROLLER AND DISK STOPPER ARE REMOVED FROM DISK	○				
	DISK SELECTOR IS REMOVED FROM HOLDER PLATE TO ESTABLISH A STATE WHERE THE HOLDER PLATE IS BONDED					
11	DRIVE CHASSIS UNIT MOVES TO HEIGHT OF INITIAL POSITION		○			

FIG.96

FLOW OF OPERATION DURING DISK PLAYBACK

	OPERATION CONTENT	WORKING MOTOR				
		M1	M2	M3	M4	M5
1	DRIVE CHASSIS UNIT IS MOVED INTO A POSITION PERMITTING THE SELECTION OF A HOLDER PLATE FOR STORING THE DISK TO BE PLAYED BACK		○			
2	DISK SELECTOR IS MOVED TO OPEN THE HOLDER PLATE TO A WIDTH PERMITTING THE INSERTION OF THE LOADING ROLLER (HOLDER OPEN POSITION (1)).	○				
	LOADING ROLLER AND DISK STOPPER ARE MOVED TO HOLD DISK					
	CATCHES OF DISK HOLD LINKS ARE CLOSED AND DISK IS REMOVED BY OPENING THE DISK HOLDER FURTHER (HOLDER OPEN POSITION (2)).					
	DISK HOLDER IS OPENED FURTHER (HOLDER OPEN POSITION (3)) TO INTRODUCE DRIVE BASE					
	TURNTABLE IS INTRODUCED BELOW DISK BY ROTATING THE DRIVE BASE					
	CLAMPER RING IS CLOSED WHILE LIFTING UP DRIVE UNIT AND DISK IS CHUCKED ON TURNTABLE					
	LOADING ROLLER AND DISK STOPPER ARE MOVED TO A POSITION OF NON-CONTACT WITH THE DISK					
	FLOATING BLOCK IS RELEASED TO PUT DRIVE UNIT IN FLOATING STATE					
3	PICKUP IS FED TO INNER CIRCUMFERENCE BY THREAD MOTOR				○	
4	DISK IS PLAYED BACK THROUGH ROTATION					○

FIG. 97

